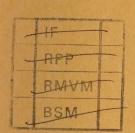


COMMONWEALTH AGRICULTURAL BUREAUX



Review of applied entomology



Series B Medical and Veterinary

COMMONWEALTH INSTITUTE OF ENTOMOLOGY

56 Queen's Gate, London SW7 5JR, UK Telephone: 01-584-0067

Director and Editor: N.C. Pant, M.Sc., D.I.C., Ph.D., F.N.A., F.I.Biol.

Assistant Director/Editor: A.H. Parker, M.Sc., Ph.D.

Assistant Editor: J.M.B. Harley, B.Sc.

Scientific Information Officers: Mrs. M.A. Greiff, B.A., Miss S.C. Huff, B.A., Miss J.J. Larkham, B.A., T.S. Robertson, B.Sc., G.A. Viney, M.Sc.

Outside Abstractors: R.F. Avery, M.A., Miss L.E. Cobb, B.A., R.G. Fennah, Sc.D., M.A., A.I.C.T.A. Distribution Maps: R.J.A.W. Lever, B.Sc. D.I.C. F.L.S.

Indexer: A.M. Wood, B.A.

Senior Editorial Assistant: Miss J.K. Harvey

Librarian: C.J. Hamilton, A.L.A. Administrative Officer: R.M. North

Taxonomists: Z. Boucek, R.N. Dr., C.Sc., Dr.Sc., J.D. Bradley, Ph.D., M.L. Cox, B.Sc., Ph.D., I.D. Gauld, M.I. Biol., M.S.K. Ghauri, M.Sc. Agr., Ph.D., D.I.C., K.M. Harris, B.Sc., Dip.Agr.Sc., D.T.A., J.D. Holloway, B.A., Ph.D., D. Macfarlane, B.Sc., R. Madge, M.S., Ph.D., B.R. Subba Rao, B.Sc., Assoc. I.A.R.I., Ph.D., T.G. Vazirani, M.Sc., Ph.D., D.Sc., D.J. Williams, B.Sc., Ph.D., D.Sc., F.I. Biol.

The function of the Commonwealth Institute of Entomology is to make available and disseminate information on insects and other arthropods of importance to man whether they are injurious or beneficial in their effects. It publishes Series A (Agricultural) and Series B (Medical & Veterinary) of the monthly Review of Applied Entomology, abstracting the applied entomological literature of the world, the Bulletin of Entomological Research, a quarterly research journal of applied entomology, Distribution Maps of Pests (18 per annum) and other publications at irregular intervals. The Institute also has a Library specialising in applied entomology open to the public, and an Identification Service located in the British Museum (Natural History), the services of which are available to any user. Along with 3 other Institutes and 10 Bureaux, it forms part of the Commonwealth Agricultural Bureaux, an organisation sponsored by Commonwealth governments for the dissemination of information on agricultural research and related subjects.

Annual Subscription Rate for Review of Applied Entomology
To subscribers that are not members of CAB

£120.00 (Series A) £ 60.00 (Series B)

The journal is available at a special rate to subscribers in countries which make a financial contribution to CAB (these countries are listed on the inside back cover).

Back volumes are available with discounts of up to 50% on orders of over 10 volumes. Microform editions are available at 80% the price of paper editions.

Orders and enquiries concerning subscriptions and back volumes should be sent to CENTRAL SALES, COMMONWEALTH AGRICULTURAL BUREAUX, FARNHAM HOUSE, FARNHAM ROYAL, SLOUGH SL2 3BN, UK. Please note that prices are subject to change without notice.

Photocopies of most abstracted papers can be supplied by the Institute at 20p per page in UK, or 25p per page elsewhere by air mail; minimum charge £2 per paper. An application and copyright declaration form is printed inside this issue. This form (which may be copied) should be signed and returned to the Institute.

© Commonwealth Agricultural Bureaux, 1981. All rights reserved. No part of this publication may be reproduced in any form or by any means, electronically, mechanically, by photocopying, recording or otherwise, without the prior permission of the copyright owner.

The Executive Council of the Commonwealth Agricultural Bureaux is a signatory to the Fair Copying Declaration, details of which can be obtained from The Royal Society, 6 Carlton House Terrace, London SW1.

The Commonwealth Agricultural Bureaux organisation does not accept responsibility for any trade advertisement included in this publication.

REVIEW OF APPLIED ENTOMOLOGY

Series B - Medical and Veterinary

Volume 68



Prepared by

Commonwealth Institute of Entomology, London

ISSN 0305-0084

© Commonwealth Agricultural Bureaux 1981

All rights reserved. No part of this publication may be reproduced in any form or by any means, electronically, mechanically, by photocopying, recording or otherwise, without the prior permission of the copyright owner.

The Executive Council of the Commonwealth Agricultural Bureaux is a signatory to the Fair Copying Declaration, details of which can be obtained from The Royal Society, 6 Carlton House Terrace, London, S.W.1.

published by

Commonwealth Agricultural Bureaux, Farnham House, Farnham Royal, SLOUGH SL2 3BN, UK.

COMMONWEALTH AGRICULTURAL BUREAUX

The Commonwealth Agricultural Bureaux (CAB) is a co-operative venture established by Commonwealth Governments to provide information and other specialized services for scientists and professional workers in agriculture and related fields. The organization is controlled by an Executive Council composed of nominees of the various Commonwealth Governments, including one for the Dependent Territories. The following pages list the present members of the Executive Council, and Liaison Officers who form the primary link in the member country.

CAB has three main functions: a world agricultural information service, an identification service for entomology, mycology and helminthology, and a biocontrol service. CAB's information service is based on 46 abstract journals which, taken together, cover the whole range of agricultural science. Contemporary world literature in many languages is scanned for items worthy of noting by abstract or titles in the journals. Since 1973 all references have been made available in machine-readable form for batch searching and online retrieval. The database contains approximately 1,100,000 records and is increasing by 12,000 per month. Other publications include technical periodicals, annotated bibliographies, review articles and books. An information retrieval service ensures that individual needs are met, and also supplies photocopies of source papers.

The work of CAB is largely carried out through a number of Institutes and Bureaux, each dealing with a particular aspect of agricultural science. Enquiries on scientific aspects of CAB work should be sent to the Director of the appropriate Bureau. Other enquiries should be sent to the Executive Director, CAB, at the address below, or to Liaison Officers in member countries.

Headquarters

Farnham House, Farnham Royal, Slough SL2 3BN, UK Tel: Farnham Common (02814) 2281 Telex: 847964 Cables: COMAG, SLOUGH

> Executive Director: N.G. Jones, DFC, BSc Editorial Director: J.R. Metcalfe, MA, PhD Sales Director: J. Newton, BSc, PhD Scientific Adviser: E.K. Woodford, OBE, MSc, PhD

Institutes

Commonwealth Institute of Entomology, 56 Queen's Gate, London SW7 5JR, Tel: 01-584-0067/8

Director: N.C. Pant, MScAgr, DIC, PhD, FNA.

Commonwealth Mycological Institute, Ferry Lane, Kew, Richmond TW9 3AF. Tel: 01-940-4086/7

Director: A. Johnston, BSc, AICTA, FIBiol.

Commonwealth Institute of Biological Control, Gordon Street, Curepe, Trinidad, West Indies. Tel: St. Augustine (662) 4173 Director: F.D. Bennett, BSA, PhD.

Commonwealth Institute of Helminthology, The White House, 103 St. Peter's Street, St. Albans, AL1 3EW, Herts. Tel: St. Albans (0727) 33151

Director: R.L.J. Muller, BSc., PhD.

Bureaux

Agricultural Economics, Dartington House, Little Clarendon Street, Oxford OX1 2HH. Tel: Oxford (0865) 59829.

Director: J.O. Jones, MA.

Animal Breeding and Genetics, Animal Breeding Research Organization, The King's Buildings, West Mains Road, Edinburgh EH9 3JX. Tel: Edinburgh (031) 667-6901.

Director: J.D. Turton, BSc, MRCVS, DTVM.

Animal Health, Central Veterinary Laboratory, New Haw, Weybridge, KT15 3NB, Surrey. Tel: Byfleet (09323) 42826 Director: R.M. Mack, FRCVS.

Dairy Science & Technology, Lane End House, Shinfield, Reading RG2 9BB. Tel: Reading (0734) 883895

Director: E.J. Mann, NDD, CDD. Forestry, Commonwealth Forestry Institute, South Parks Road, Oxford OX1 3RD. Tel: Oxford (0865) 57185

Director: W. Finlayson, BSc.

Horticulture & Plantation Crops, East Malling Research Station, Maidstone ME19 6BJ, Kent. Tel: West Malling (0732) 843833 Director: D.J. O'D. Bourke, MA, DipAgr, FLS.

Nutrition, Rowett Research Institute, Bucksburn, Aberdeen AB2 9SB. Tel: Bucksburn (0224) 712162 Director: A.A. Woodham, BSc, PhD, CChem, FRIC.

Pastures & Field Crops, Grassland Research Institute, Hurley, Maidenhead SL6 5LR. Tel: Littlewick Green (062 882) 3457 Director: P.J. Boyle, MA.

Plant Breeding & Genetics, Department of Applied Biology, Pembroke Street, Cambridge CB2 3DX. Tel: Cambridge (0223) 358381 (Ext. 216)

Acting Director: Miss O. Holbeck, BSc.

Soils, Rothamsted Experimental Station, Harpenden AL5 2JQ, Herts. Tel: Harpenden (05827) 63133 (Ext. 271) Director: B. Butters, MSc, DipAgr, DTA, DIC, ARCS.

EXECUTIVE COUNCIL

(as at 1 September 1980)

| Member | | | | | | Representing |
|----------------------------|--------|--------------|--------|---|----------------|-----------------------|
| R.B. RYANGA (Chairman) | | | | | | Kenya |
| G.M.P. MYERS | | | | | | United Kingdom |
| Dr. L. MORLEY | 100 | 7 1 11 | 11. | 1 | Stull lyn | Canada |
| Dr. A.E. PIERCE | | | | Million | brie Bergi | Australia |
| Dr. B. HEALY | | 11447 | | 00010 | almando n | New Zealand |
| Dr. M. DHAR | 11.76 | 900 | *** | A M | 1-17/11/59 | India |
| J.C. RAJEPAKSE | | 7,000 | | 171111111111111111111111111111111111111 | Jenna e | Sri Lanka |
| Y.N. OHENE-AKRASI | | | | | | Ghana |
| THE SECOND SECRETARY | *** | | *** | *** | | Malaysia |
| THE FIRST SECRETARY | | 14.1.1 | | | 4 400 | Nigeria |
| A. ANTONIADES | *** | mobal | | *** | and the second | Cyprus |
| H.E. THE HIGH COMMISSIONER | *** | mordw. | *** | | aniased n | Sierra Leone |
| Mrs. L.E. HOWELL | my 7 | | | 1 1 1 1 | J. burney | Tanzania |
| Miss H. GOULBOURNE | *** | | Manag | *** | | Jamaica |
| C.T. GRANDERSON | | | *** | *** | | Trinidad & Tobago |
| A.L. MUKASA-ZIRIMENYA | | HILL BY | Hould. | 090 | alahun .an | Uganda |
| H.E. THE HIGH COMMISSIONER | ordu 1 | uplingu | | 984 | = = =0 | Malawi |
| THE TRADE COMMISSIONER | | | | *** | | Zambia |
| S. GASSAMA | | 7111 | | 11. 7 | Jo barra | The Gambia |
| N. BURGESS | | | | 79711 | HIER ST IS | Guyana |
| H.E. THE HIGH COMMISSIONER | | 7 | | neda: | - naminana | Botswana |
| T. NARRAINEN | | | *** | *** | - Pinterior | Mauritius |
| P.K. MISHRA | | | *** | | | Fiji |
| S.A.L.M. MUSTAKIM | | | *** | | | Bangladesh |
| H.E. THE HIGH COMMISSIONER | | and the same | | | *** | The Bahamas |
| F.B.C. REIHER | | | | | . Humannu | Papua New Guinea |
| I.H. HARRIS | | (CLL) | | | 1.7 | Dependent Territories |
| | | | | | | |

Dr. D.A. ALI, Secretary, Commonwealth Science Council (Observer)

N.G. JONES, DFC, BSc (Executive Director)

LIAISON OFFICERS

(as at 1 September 1980)

| Contributing country | Liaison Officer | Address |
|----------------------|---------------------------------|--|
| United Kingdom | Under Secretary | Agricultural Research Council, 160, Great Portland Street, London W1N 6DT. |
| Canada | G.M. Carman, BSA, MSc, PhD. | Director-General, Information Services Agriculture Canada, Ottawa, Ontario, K1A 0C7. |
| Australia | D.G. Thomas | Commonwealth Scientific and Industrial Research Organization, PO Box 225, Dickson, ACT 2602. |
| New Zealand | G.W. Butler, MSc, Fildr, FRSNZ. | Assistant Director-General, Department of Scientific and Industrial Research, Private Bag, Wellington. |

| India | O.P. Gautam, PhD | Director-General, Indian Council of Agricultural Research, Krishi Bhavan, New Delhi 110001. |
|-------------------|--|---|
| Sri Lanka | G.W.E. Fernando, BSc, MSc, PhD. | Senior Deputy Director of Agriculture (Research), Central Agricultural Research Institute, Gannoruwa, Peradeniya. |
| Ghana | Executive Chairman | Council for Scientific & Industrial Research, PO Box M.32, Accra. |
| Malaysia | Permanent Secretary | Ministry of Agriculture & Co-operatives, Swettenham Road, Kuala Lumpur. |
| Nigeria | The Director | Agricultural Science Research Department, Moor Plantation, P.M.B. 5382, Ibadan. |
| Cyprus | A. Papasotomontos, PhD. | Director General, Ministry of Agriculture & Natural Resources, Nicosia. |
| Sierra Leone | Senior Lecturer | Njala University College, University of Sierra Leone, PMB, Freetown. |
| Tanzania | Director of Agriculture | Ministry of Agriculture, PO Box 9071, Dar-es-Salaam. |
| Jamaica | The Director | Research & Development Department, Ministry of Agriculture, PO Box 480, Kingston 6. |
| Trinidad & Tobago | Chief Technical Officer (Crop Research) | Ministry of Agriculture, Central Experiment Station, Centeno, Via Arima Post Office, Trinidad. |
| Uganda | Permanent Secretary | Ministry of Agriculture & Forestry, PO Box 102, Entebbe. |
| Kenya | Director of Agriculture | Ministry of Agriculture, PO Box 30028, Nairobi. |
| Malawi | Chief Agricultural Research Officer | Ministry of Agriculture & Natural Resources, PO Box 30134, Capital City, Lilongwe 3. |
| Zambia | Permanent Secretary | Ministry of Rural Development, PO Box RW.197, Lusaka. |
| The Gambia | Permanent Secretary | Ministry of Agriculture & Natural Resources, The Quadrangle, Banjul. |
| Guyana | Deputy Chief Agricultural Office (Research) | Ministry of Agriculture, PO Box 1001, Georgetown. |
| Botswana | Permanent Secretary | Ministry of Agriculture, Common Service Division, Private Bag 0028, Gaborone. |
| Mauritius | B.D. Roy | Chief Agricultural Officer, Agricultural Services, Reduit. |
| Fiji | Permanent Secretary | Agriculture, Fisheries & Forests, Rodwell Road, Suva. |
| Bangladesh | Dr. K. Badruddoza MAgr, PhD, DipGenPB. | Director, Bangladesh Agricultural Research Institute, 87 Pioneer Road, Kakrail, Dacca-2. |
| The Bahamas | Director of Agriculture | Ministry of Agriculture & Fisheries, PO Box 3028, Nassau, N.P. |
| Papua New Guinea | N.J. Natera, The Secretary | The Department of Primary Industries PO Box 2417, Konedomu. |
| | | |

COMMONWEALTH INSTITUTE OF ENTOMOLOGY

56 QUEEN'S GATE, LONDON SW7 5JR, UK TELEPHONE: 01-584-0067

Identification Service: c/o British Museum (Natural History), Cromwell Road, London SW7 5BD, UK

Director and Editor:

N.C. Pant, M.Sc., D.I.C., Ph.D., F.N.A., F.I. Biol.

Assistant Director/Editor:

A.H. Parker, M.Sc., Ph.D.

Assistant Editor:

J.M.B. Harley, B.Sc.

Scientific Information Officers:

Mrs. M.A. Greiff, B.A. Miss S.C. Huff, B.A.

Miss J.J. Larkham, B.A. T.S. Roberton, B.Sc.

G.A. Viney, M.Sc.

Outside Abstractors:

R.F. Avery, M.A. Miss L.E. Cobb, B.A. R.G. Fennah, ScD., M.A. A.I.C.T.A.

Distribution Maps:

R.J.A.W. Lever, B.Sc., D.I.C., F.L.S.

Indexer:

A.M. Wood, B.A.

Senior Editorial Assistant:

Miss J.K. Harvey

Librarian:

C.J. Hamilton, A.L.A.

Administrative Officer

R.M. North

Taxonomists:

Z. Boucek, R.N. Dr., C.Sc., Dr.Sc. J.D. Bradley, Ph.D. M.L. Cox, B.Sc., Ph.D.

I.D. Gauld, M.I. Biol.

M.S.K. Ghauri, M.Sc. Agr., Ph.D., D.I.C.

K.M. Harris, B.Sc., Dip.Agr.Sc., D.T.A.

J.D. Holloway, B.A., Ph.D.

D. Macfarlane, B.Sc. R. Madge, M.S., Ph.D.

B.R. Subba Rao, B.Sc., Assoc.

I.A.R.I., Ph.D.

T.G. Vazirani, M.Sc., Ph.D., D.Sc.

D.J. Williams, B.Sc., Ph.D., D.Sc., F.I.Biol.

The function of the Commonwealth Institute of Entomology is to make available and disseminate information on insects and other arthropods of importance to man whether they are injurious or beneficial in their effects. It publishes Series A (Agricultural) and Series B (Medical & Veterinary) of the monthly Review of Applied Entomology, abstracting the applied entomological literature of the world, the Bulletin of Entomological Research, a quarterly research journal of applied entomology, Distribution Maps of Pests (18 per annum) and other publications at irregular intervals. The Institute also has a Library specialising in applied entomology open to the public, and an Identification Service located in the British Museum (Natural History), the services of which are available to any user. Along with 3 other Institutes and 10 Bureaux, it forms part of the Commonwealth Agricultural Bureaux, an organisation sponsored by Commonwealth governments for the dissemination of information on agricultural research and related subjects.

REVIEW OF APPLIED ENTOMOLOGY

SERIES B Volume 68

| | | | | | Co | nte | nts | | | | | | | | | |
|--|------------|------------|-----------|------|----------|-------|----------|------------|------------|------------|-----|------------|------------|------|------------|----|
| STRACTS | | | | | | | | | | | | | | | | |
| TAXONOMY | | | | | 11 | 49 | 65 | 99 | 131 | 165 | 197 | 237 | 265 | 293 | 343 | 3 |
| ANATOMY, MORPHOLO | GY | · (1). 8/1 | reill de | 19.E | 11 | 49 | 65 | 99 | 131 | 165 | 197 | 237 | 265 | 293 | 343 | |
| REPRODUCTION AND I | DEVELO | PMEN | NT | U.n | 11 | 49 | 65 | 99 | 131 | 165 | 197 | 237 | 265 | 293 | 343 | |
| PHYSIOLOGY AND BIO | CHEMIS | TRY | 7007A | 0 / | 11 | 49 | 65 | 99 | 131 | 165 | 197 | 237 | 265 | 293 | 343 | 23 |
| GENETICS AND STERIL | | cienti | William I | V.,. | 11 | 49 | 65 | 99 | 131 | 165 | 197 | 237 | 265 | 293 | 343 | |
| | | ••• | | | | | | | | | | | | | | |
| ECOLOGY AND BEHAV | | *** | *** | | 11 | 49 | 65 | 99 | 131 | 165 | 197 | 237 | 265 | 293 | 343 | |
| GEOGRAPHICAL DISTR | RIBUTIO | N, FA | UNAS | S | 11 | 49 | 65 | 99 | 131 | 165 | 197 | 237 | 265 | 293 | 343 | |
| TECHNIQUES AND APP | ARATU | S | | | 11 | 49 | 65 | 99 | 131 | 165 | 197 | 237 | 265 | 293 | 343 | |
| ARTHROPODS OF MED | | | | | | | | | | | | | | | | |
| VETERINARY IMPOR | RTANCE | | | | 12 | 49 | 66 | 99 | 131 | 165 | 197 | 237 | 265 | 293 | 343 | |
| Blattaria | | | | | 16 | 49 | 70 | 102 | 135 | 168 | 200 | 240 | 267 | 299 | 345 | |
| Mallophaga | | | | | 17 | - | 71 | 104 | 136 | 169 | 202 | 241 | 268 | - | 346 | |
| Anoplura | | ••• | | | 17 | - | 71 | 104 | 136 | 169 | 203 | | 268 | 301 | 346 | |
| Hemiptera | *** | | *** | | 17 | 50 | 71 | 105 | 137 | 170 | 203 | 241 | 269 | 301 | 346 | |
| Reduviidae | | ••• | | | 17 | 50 | 71 | 105 | 137 | 170 | 203 | 241 | 269 | 301 | 346 | |
| Cimicidae | | | | | - | - | - | | 138 | 171 | 204 | | 271 | _ | 347 | |
| Other Hemiptera | | | | | | _ | | 105 | _ | - | 204 | | _ | 302 | _ | |
| Siphonaptera | | *** | | | - | 51 | 72 | 105 | 138 | 171 | 204 | 241 | 271 | 302 | 347 | |
| Diptera | | | | | 19 | 51 | 73 | 106 | 140 | 172 | 205 | 241 | 271 | 304 | 348 | |
| Culicidae | | | | | 19 | 51 | 73 | 106 | 140 | 172 | 205 | 241 | 271 | 304 | 349 | |
| Ceratopogonidae | | | | | 32 | 54 | 79 | 113 | 148 | 181 | 217 | _ | 277 | 313 | 360 | |
| Phlebotominae | | | | | 32 | 55 | 79 | 113 | 148 | 181 | 218 | 251 | 277 | 314 | 361 | |
| Simuliidae | | | | | 32 | 55 | 80 | 114 | 149 | 181 | 218 | 251 | 278 | 315 | 361 | |
| Glossinidae | | | | | 33 | 55 | 81 | 116 | 150 | 183 | 218 | 252 | 279 | 316 | 362 | |
| Oestridae, Gasterop | hilidae, (| Cutere | bridae | | 34 | 56 | 82 | 117 | 151 | 184 | 219 | 252 | 279 | 317 | 364 | |
| Other Diptera | | | | | 35 | 57 | 83 | 117 | 151 | 185 | 220 | 252 | 280 | 318 | 365 | |
| Other insect orders | | | | *** | 38 | 60 | 89 | 123 | 156 | 188 | 226 | 256 | 284 | 325 | 370 | |
| Acari | | | | | 39 | 60 | 90 | 124 | 157 | 189 | 227 | 257 | 285 | 326 | 371 | |
| Ticks (Ixodoidea) | | | | | 39 | 60 | 90 | 124 | 157 | 189 | 228 | 259 | 285 | 331 | 371 | |
| Mites (other Acari) | | | | | 42 | 61 | 92 | 126 | 160 | 191 | 231 | 261 | 288 | 337 | 373 | |
| Other Arachnida | | | | | 44 | 62 | 94 | 128 | 162 | 193 | 234 | 262 | 290 | 340 | 375 | |
| Other arthropod classe | s | | ••• | | | 62 | 95 | - | 162 | - | 235 | 263 | _ | 340 | 375 | |
| DISEASES AND DISORI | | | | | 45 | 62 | 95 | 128 | 162 | 193 | 235 | 263 | 291 | 340 | 375 | |
| PROTECTION AGAINST USE OF ARTHROPOL | DS FOR | | | | | | | | | | | | | | | |
| CONTROL | | | | | 45 | 62 | 95 | 128 | 163 | 193 | 235 | 263 | 291 | 341 | 375 | |
| Control measures Unclassified | | | | | 45 | 62 | 95 95 | 128 128 | 163 | 193 | 235 | 263 263 | 291 291 | 341 | 375 375 | |
| Biological control (i | | | | ••• | 13 | | , , | 120 | 100 | | 255 | 200 | 271 | | 010 | |
| pathogens) | | | | | 45 | 62 | 95 | 128 | 163 | 193 | 235 | 263 | 291 | 341 | 375 | |
| Control by toxic ch | | | | | 45 | 62 | 95 | 128 | 163 | 193 | 235 | 263 | 291 | 341 | 375 | |
| Cultural control Deterrents (includir | | | | | | | _ | _ | _ | - | - | _ | - | 1110 | menn | |
| antifeedants) | | | | | _ | and . | _ | 128 | 163 | 193 | _ | _ | _ | 341 | 375 | |
| Integrated control | | | | | 45 | | _ | _ |) + | _ | - | 263 | | 341 | _ | |
| Plant resistance | | | | | - | - | _ | - | _ | - | - | - | - | - | - | |
| Pheromones, attract | | | | | 45 | - | 95 | 120 | 162 | 102 | 225 | 262 | 291 | 241 | 375 | |
| Sterilisation and ger Surveys, loss estimates | | | | | 45 45 | _ | 95 95 | 128 | 163 163 | 193 193 | 235 | 263 263 | 291 | 341 | 375 375 | |
| Legal aspects | | | | | - | _ ' | 95 | 120 | 163 | - | _ | _ | 291 — | 341 | - | |
| The state of the s | | | | | | | | | | | | | | | | |
| CHEMICALS, INCLUDIN | | | | | 4.5 | (2 | 0.5 | 1.20 | 1/2 | 104 | 225 | 202 | 201 | 241 | 276 | |
| AND ENVIRONMENT | IAL EFF | ECTS | | | 45 | 62 | 95 | 128 | 163 | 194 | 235 | 263 | 291 | 341 | 376 | |
| ORGANISATIONS AND | COMMI | INICA | TION | 1.7 | 47 | 64 | 97 | 129 | 164 | 195 | 236 | 264 | 291 | 342 | 376 | |
| | | | | | | | | | | | | DE T | OF B | -4 | | |
| THOR INDEX | | | | | | | | | | | | | | | | |

435

AUTHOR INDEX SUBJECT INDEX

ERRATA

(lines are counted from the beginning of the bibliographic data in each item.)

Volume 68

| Page A | Abstract | Line | |
|--------|----------|------|--|
| 53 | 345 | 20 | For 'A. malayensis,' read 'A. scutellaris malayensis (A. malayensis).' |
| 54 | 349 | 3 | For 'in the Americas' read 'in the Americas' |
| 148 | 1098 | 3 | For 'Islands.]' read 'Islands. Control measures.]' |
| 172 | 1296 | 8 | For 'subspecies' read 'variety' |
| 172 | 1296 | 10 | For 'subsp.' read 'var.' |
| 172 | 1296 | 14 | For 'subsp. toumanoffi' read 'var. toumanoffi' |
| 177 | 1328 | 9 | For 'C.' read 'Culex' |
| 177 | 1328 | 10 | For 'O.' read 'Odagmia' |
| 294 | 2264 | 3 | For 'Economic' read 'Medical' |
| 354 | 2761 | 2 | Insert ', USA' after 'Science' |
| 414 | 3241 | 4 | For 'Bacillus thuringiensis israelensis' read 'Bacillus thuringiensis |
| | | | israelensis' |

AUTHOR INDEX

Abar, B. 2573 Abban, E. K. 3117 Abbasov, T. G. 1808 Abbassy, M. A. 2887 Abdel-Malek, A. A. 526 Abdel-Rahman, A. M. 526 Abdel-Ranman, A. M. S. Abdillahi, M. 1115 Abdu, R. M. 1760, 1767 Abduganiev, K. 3028 Abidin, M. 2788 Abkiewicz, C. 1971 Aboul-Nasr, A. E. 79 Abrau, Saccheta I. de 16 Abreu Saccheta, L. de 1050 Abrorov, G. A. 2605 Abu-Hakima, R. 65 Abul-Hab, J. 2711 Abulshama, F. T. 1311 Acedo, C. Sánchez 1495 Ackermann, R. 2572, 2573, 2971 Ackermann, U. 2155 Acosta, M. 1351 Adam, C. 2734, 2780 Adamou, T. 2114 Adamović, Ž. R. 446, 3042 Adams, B. G. 2821
Adams, M. E. 584
Adams, T. S. 1398, 1709
Addadi, K. 3114
Adder, R. W. 1467
Addison, E. M. 2590
Addison, L. D. 2259
Aderele, W. I. 1798
Adham, F. K. 2362
Adhami, U. M. 547
Adkins, D. A. 798
Adkinson, N. F., Jr. 2201
Adlakha, V. 132
Adler, H. E. 405
Adler, J. 2273 Adler, J. 2273 Aellen, V. 673, 1450 Aeschlimann, A. 412, 918, 1435, 2206
Afanas'eva, O. V. 2216
Africa, C. A. 1011
Agarwal, G. P. 56, 1006, 1531, 2332, 3014
Agarwal, H. V. 789, 1893
Agashkova, T. M. 3177
Agatsuma, T. 788, 1146, 1147
Agrawal, D. P. 1717
Agrawal, O. P. 1517
Agricola, H. 2320
Agricultural Development and Advisory Service, United 1435, 2206 Advisory Service, United
Kingdom 2278
Agricultural Research Council,
United Kingdom 1508
Agriculture Canada 2014, Agriculture Canada 2014, 2694
Ahlert, G. 2012
Ahmad, M. 1042
Ahmed, M. N. 2631
Ahmed, S. H. 526
Ahmed, T. 2798
Ahmed, W. 547
Ahrens, E. H. 1202
Ainsley, R. 110
Ainsley, R. W. 111, 1869, 1870, 3092
Aiouaz, M. 1510, 1511
Aitken, T. H. G. 794, 2128
Aizawa, K. 1296
Ajello, C. A. 2760
Akamatsu, J. I. 2740
Akande, M. 3212
Akers, W. A. 802
Aketa, K. I. 1465
Akey, D. H. 834
Akhter, R. 3095
Akiyama, Y. 615
Akre, R. D. 631
Akribi, A. D. 2664
Al-Dabagh, M. 2472
Al-Daham, N. K. 1339
Al-Janabi, B. M. 3211
Al-Mufti, N. 2472
Al-Rawas, A. Y. 2472 2694

Al-Sadi, H. I. 3211 Al-Saffar, S. 2472 Alagon, A. 1423 Alary, J. C. 1116 Albala Pérez, F. 1495 Albrecht, A. 51
Alder, G. M. 731
Alekseev, A. N. 1559
Alekseev, E. V. 518 Alekseev, E. V. 518 Alemā, S. 2252 Alfferty, A. 148 Ali, A. 889, 2491, 2877 Ali, A. A. 2227 Ali, Z. I. 747 Allen, J. R. 1180, 1438, 2546, 2620, 3190 Allmen, S. D. von 1643 Allonby, E. W. 860 Allred, D. M. 688 Allsopp, P. G. 2893 Allué, L. A. Quesada 491 Almeida, F. B. de 1279 Almeida Rodrigues, B. de Almeida Rodrigues, B. de 2034 2034 Almeida, S. P. 2708 Alvarado, C. 1348 Alvarado U., R. 2229 Alvarenga, N. J. 2075 Alvarez, A. 185, 186 Alves Ferreira, O. 2069, 2070 Alves Pires, C. 1639, 1640, 2089 Alves, U. P. 1019 Alvim, E. de F. 75 Alzamora, F. 290 Amakawa, T. 2847 Ambroise-Thomas, P. 1074 Ameen, M. U. 3150 Amer, A. A. 270 Amer, M. Ben 3138 Amerault, T. E. 2415 American Society of Parasitologists 10 Andersen, K. E. 1780 Anderson, J. F. 251, 380, 387, 2530 2530 Anderson, J. R. 873, 1870, 1882, 1885, 1886 Anderson, M. C. 1419 Anderson, O. D. 230 Anderson, P. C. 2934 Anderson, R. M. 311, 637, 2984 Andino, A. 1348 Ando, K. 298, 3248 Andrade, J. C. R. de 67, 68, 96 Andreadis, T. G. 1333, 2749 Anez, N. 3022 Añez, N. 3069 Angeli, A. degli 480 Angelovski, T. 442 Angioy, A. M. 1157, 1158 Animal Health Division, MAF, New Zealand 3016 Anoez, H. 1587 Ansari, M. A. 1619, 2385 Ansari, M. Z. 453, 454, 455, 1240 Anthony, D. W. 816, 1055, 1334 Antoch, N. N. 1558 Antonio, R. d' 15 Antunes Capela, R. 1639, 1640, 2089 Aoki, S. 764 Apperson, G. W. 139, 157 Applin, D. G. 1723 Apsalon, U. R. 1173 Araman, S. F. 1980 Aranha Matthiesen, F. 96 Arata, A. A. 175, 533 1334 139, 1576 Arata, A. A. 175, 533 Araujo, T. I. 1164 Arbesman, C. E. 241, 401, 1965 Archibald, R. D. 2145 Ardalan, A. 855 Arendarczyk, W. 55 Arends, A. 3021

Arguello, N. 493 Arias, J. R. 1100 Aristova, V. A. 2963 Arlian, L. G. 1503, 1787, 2566, 2567 Armitage, P. 2154 Armstrong, J. A. 138 Arora, M. 547 Arrieta Pérez, A. 262 Arroyo, A. Gasca 1491, 1492 Arroyo, A. Gasca 1491, 1492 Arruda-Mayr, M. de 13, 528 Arsen'eva, L. P. 2993 Artamonov, S. D. 27 Arteche, C. C. P. 2680 Artomasova, A. V. 242 Artsob, H. 2964 Arumova, E. A. 641 Arunachalam, N. 1912 Arundel, J. H. 2860 Arzamasaŭ, I. Ts. 639 Arzone, A. 479 Arzamasau, I. 1s. 639 Arzone, A. 479 Asafova, N. N. 633 Asahina, S. 692, 707 Asai, M. 430 Asawa, T. 298 Asbeck, M. C. van der Hooftvan 423 Asbeck, M. C. van de van 423 Asensio, A. 269 Ash, L. R. 517 Asher, D. M. 2972 Ashi, J. 2134 Ashkar, T. S. 2096 Aslam, F. 1042 Aslam, M. 304 Aslam, Y. 1091 Aslamkhan, M. 129 Aslamkhan, M. 129, 1920, 2117 Asman, S. M. 109, 110, 111, 1314, 1867, 1869, 1870, 3092 Assefa, S. 172 Assis de Moraes, A. P. 2442 Association of Yugoslav Assis de Moraes, A. P. 2442
Association of Yugoslav
Parasitologists 439
Astier, J. P. 292
Atal, C. K. 2670
Atangana, S. 1074
Atarskaya, V. V. 2106
Atchley, W. R. 833
Atkins, M. D. 914
Atmosoedjono, S. 1638
Attakorn, N. 2645
Attia, F. I. 609, 1151
Attiah, M. D. 1237
Atyeo, W. T. 279
Auber-Thomay, M. 2073
Aubert, M. F. 1195
Aubin, A. 512, 780, 2456
Auger, P. 2245
Ault, S. K. 1429
Auriault, M. 2745, 3103
Averre, C. W. 732
Avery, S. W. 816
Avial, R. 1790
Avtushenko, L. A. 766
Axtell R. C. 151 1358 1355 2876 Axtell, R. C. 151, 1358, 1359, 1441, 1895, 2183, 2389, 3179 Ayad, H. 153 2337 Ayala, C. A. C. 2 Ayre, G. L. 2204 Azienda Municipalizzata di Igiene Urbana di Ravenna 967 967 Babenko, L. V. 641 Babu, K. S. 477, 686, 744, 948, 1005, 3239 Bachelor, J. S. 1073 Back, C. 2456 Badawy, A. M. 2943, 2944, 2945 Badowska-Czubik, T. 959 Baehr, J. C. 1275 Baer, H. 1419 Baeza, C. R. 3200 Bagar, S. 3095 Bahadur, J. 1517

Bahl, A. K. 306 Bai, M. G. 2770 Bai, M. K. 1281, 1548 Bailey, C. L. 1556
Bailey, D. L. 509, 1326, 1602, 1618, 2129, 2396
Bailey, N. T. 2121
Bailey, P. T. 2312
Bailie, H. D. 2848, 2849 Bailly-Choumara, H. 2810
Bain, O. 2144
Baird, C. R. 1390
Bakanova, Z. M. 2675
Baker, J. A. F. 2552
Baker, J. R. 1817, 1926, 2210
Baker, K. K. 1335
Baker, K. K. 2016
Baker, M. K. 2016
Baker, N. T. 958
Baker, R. H. 1042, 1616, 1651, 1920, 2097, 2412, 2752 Bailly-Choumara, H. 2810 2752 Bakos, L. 1677 Bakuniak, E. 1806 Balabushevich, M. I. Balabusnevich, M. 1. 3098 Balaraman, K. 2769, 2772 Balashov, Yu. S. 1186, 2612 Balboni, E. 1948 Baldo, B. A. 1454, 2914 Balduy, D. A. T. 2151 Balducci, M. 263, 2967 Balique, H. 1224 Ballan-Dufrançais, C. 1270 Balling, S. S. 1874, 1875 Balogun, R. A. 370 Ban, T. 2193 Ban, T. 2193
Bandopadhyay, D. 938
Banerjee, A. K. 419
Bang, Y. H. 530, 532, 533, 1586, 1892, 1923, 3043
Bangoura, J. F. 2780
Banks, W. M. 2321
Banoub, W. F. 2490
Baqar, S. 2798
Barabanova, V. V. 2041
Baranowski, R. 602
Baranowski, R. M. 2999
Barata, J. M. S. 2709
Barath, J. 2465 Baranowski, R. M. 2999 Barata, J. M. S. 2709 Barathe, J. 2465 Barbashova, H. M. 2216 Barber, J. T. 955 Barber, T. L. 2809 Barbosa de Almeida, F. 12 Barbugiani, M. do C. 964 Barcelos de Oliveira, C. M. 2686 1279 2686 2686
Barjac, H. de 1475, 2029, 2253, 2818
Barker, J. F. 635
Barker, R. W. 20, 1070, 3205
Barlow, N. D. 1752
Barnard, D. R. 552
Barnes, A. M. 1028, 2615
Barnes, C. M. 1315
Barnes, J. K. 1951
Barnett, B. D. 1927
Barr, A. R. 1355, 1593
Barrera, I. B. de 2583
Barreto, A. C. 2075 Barr, A. R. 1355, 1593
Barrera, I. B. de 2583
Barreto, A. C. 2075
Barreto, S. P. 2867
Barrett, J. T. 682
Barrett, T. V. 2077, 2078
Barrio, A. 1801
Barrios, C. Cutillas 1485
Barro, T. 2148
Barros, J. A. C. de 1102
Barsch, G. F. Teetor - 6 Barros, J. A. C. de 1102
Barsch, G. E. Teetor - 612
Barson, G. 1507, 1513
Bartell, R. J. 2189
Bartholomew, G. A. 1970
Bartkowska, K. 330
Barton Browne, L. 1167, 2189
Barwig, B. 3007
Basio, L. Santos- 1321
Basio, R. G. 542, 1321
Basio, R. G. 542, 1321
Basio, R. A. 3095
Basova, D. A. 1076
Bass, J. A. 240
Bass, J. A. B. 2817

Bassi, D. G. 3032 Basten, A. 1454 Batchvarov, G. 330 Bátora, V. 297 Batra, C. P. 540, 1306, 2775, 2776
Batson, B. S. 1371, 1372
Battershell, R. D. 1468
Bauchhenss, E. 1725
Bauer, A. C. 1159
Bauer, L. S. 853
Baum, R. T. 1561
Bautz, A. M. 1958
Bawdem, M. P. 2369
Bawden, M. P. 2369
Bawden, M. P. 927
Baya-Tsika, N. 842
Bayar, N. 2446
Bayer, E. V. 85, 1851
Beach, R. 3091
Beach, R. F. 1044
Beadle, D. J. 926, 1765, 3203
Beadles, M. L. 591
Beardsley, J. W., Jr. 2280
Beattie, G. A. C. 606, 608, 1403, 1404, 1733
Beaty, B. J. 794, 1557, 2128
Beaucornu, J. C. 2718
Beaucornu, J. C. 2084
Beaudoin, R. L. 927
Beaulaton, J. 1843
Bebout, R. J. 2796
Becerra, C. 1480
Beck, A. A. H. 2676, 2677
Becker, J. 1271
Becker, J. L. 1271
Becker, J. C. 5159
Beerwerth, W. 738 2776 Batson, B. S. 1371, 1372 3121 3121
Beerwerth, W. 738
Beesley, C. 2874
Begum, J. 2192
Behrenz, W. 296
Beidler, E. J. 148
Belkin, J. N. 350, 1623
Bell, J. F. 1433, 1534
Bell, W. J. 483, 739, 740, 999, 1835 Belle, E. A. 2921 Belocopitow, E. 491 Belot, J. 2614 Belot, J. 2614 Belousova, R. V. 2586 Belton, P. 1298 Ben Amer, M. 3138 Benavides, G. 2076 Benedetto, H. D. de 204 Benedict, M. Q. 144, 816, 2411 2411 Bengali, S. 2834 Bengtsson, E. 1046, 1349 Benichou, L. 2253 Benítez, D. Guevara 1487 Bennietz, D. Guevara 1467 Benjamin, D. M. 1734 Bennet-Clark, H. C. 731 Bennet, G. W. 1265 Bennett, G. F. 1111, 1617, 3119 Bennett, G. F. 1111, 1617, 3119
Bennett, J. E. 2279
Bennett, P. H. 1794
Bennett, S. R. 89, 3094
Bentley, D. G. 1012
Bentley, M. D. 1040
Benton, A. H. 1288
Berdyev, A. 2606
Bereskun, T. M. 529
Berezina, L. K. 1747, 2000, 2586, 2963, 3090
Bergström, G. 32
Bergström, G. 32
Bergström, R. C. 19
Berl, D. 2455
Berland, L. 2994
Berlind, A. 2068
Berlocher, S. H. 2274
Berlyn, A. D. 377
Berman, E. L. 3020
Bernard, F. 2994
Bernard, G. Vattier- 2140, 2141 2141 Bernardo, M. J. 3078 Berndt, K. P. 40, 1737, 2199, 2959 Berndt, W. L. 2479 Bernstein, I. L. 1787, 2566,

Berre, R. le 1109, 2453 Berreur-Bonnenfant, J. 1692 Berreur, P. 1692 Berridge, M. J. 997, 1139, 1140 Berson, S. D. 3240 Berson, S. D. 3240

Berzhets, V. M. 271, 1209
Bessalov, V. S. 2219
Bessot, J. C. 1443
Betancourt, A. 1761
Bettini, S. 2142
Beveridge, I. 2860
Bezuidenhout, J. D. 253
Bhaduri, A. K. 1797
Bhaskar, S. U. 3247
Bhat, H. R. 264, 265, 1997
Bhat, U. K. M. 924, 2977
Bhatia, P. 2688
Bhatnagar, P. 1520
Bhatnagar, V. N. 183, 2384
Bhattacharyya, S. 419
Bhattacharyya, S. K. 3224
Bhumiratana, A. 536
Białkowski, Z. 616
Bianchi Galati, E. A. 125
Bianchi, U. 2435
Bianchi, U. 2435
Bianchi, I. 2676
Bianco, A. E. 849, 1749, 2133
Bibikova, V. A. 765
Bicaba, A. 2831
Bickley, W. E. 150, 814
Bidlingmayer, W. L. 1331, 3059
Biernacki, W. 705 3059
Biernacki, W. 705
Bigelow, R. H. 2341
Bijpost, S. C. A. 1728
Bikunova, A. N. 361
Bilbie, I. 1322
Binet, P. 743
Binnington, K. C. 1976
Biological and Chemical
Research Institute, New
South Wales 895 South Wales 895 South Wales 895 BIOTROP 726 Birley, M. 1752 Birley, M. H. 2122 Biryukov, A. V. 1025 Biscoe, M. Tyndale 2570 Bishara, S. I. 2156 Bishop, D. M. 3197 Biswas, M. K. 453, 454, 455, 1240 1240
Black, R. R. 1196
Blair, C. P. 2196
Blake, D. F. 2569
Bland, R. G. 2996
Blatger, J. Suzzoni- 2363
Blom, N. Oker- 995, 2973
Blomberg, O. 541
Blommers, L. 1007, 1008, 1273 Blomqvist, H. 3243 Blow, D. P. 1004, 2319 Blum, M. 1419 Blum, M. S. 33, 2195 Boainain, E. 2709 Bobrovskikh, T. K. 916 Bobrovskikh, 1. K. 916
Boch, J. 3157
Bodreeva, L. A. 376
Bodrova, Yu. D. 24, 193
Boer, J. den 2909
Boger, M. H. den 2909
Bogdanov, I. I. 931
Bogdanova, T. P. 2878
Bogolepov, N. K. 242
Böhm, W. 1832
Bohmfalk, G. T. 1756
Bohn, H. 3007
Bohnsack, K. K. 914
Boisvenue, R. J. 3245
Boiteux, P. 1929
Bokshtein, F. M. 557
Boldridge, D. W. 3147
Bolland, H. R. 2213
Boltz, A. 2542
Bonaccorsi, S. 2358
Bondareva, N. I. 1558, 2107
Bonin, I. 55
Bonnenfant, J. Berreur 1692 Boch, J. 3157

Bonnenfant, J. Berreur- 1692 Bonsdorff, C. H. von 995,

Boobar, L. R. 181 Boomker, J. 3139 Booram, C. V. 10 Boorman, J. 182 1070 Boorsma, E. G. 2792 Booth, K. S. 1293 Borba, A. M. 348 Boreham, P. F. L. 507, 1291, 2096, 2738, 2830, 3057 Borges, L. 1058 Borja, G. E. Moya 2684, 2687 Borja, G. E. Moya 2684, 2687 Borkovec, A. B. 1733 Bornemissza, G. 1966 Bornemissza, G. 1966 Bornemissza, G. F. 1145 Borovsky, D. 1629 Borsetto-Ménghi, A. M. 2648 Boshoff, S. T. 3105 Bosković, R. 2217 Bosler, E. M. 147 Bosman, B. T. 315, 2912 Bosseno, M. F. 1848, 2413 Boston, M. D. 801, 1613 Bot, J. 39 Botev, B. A. 1153 Botev, B. A. 1153 Botham, R. P. 3203 Bottino, G. B. 2234 Botzler, R. G. 2850 Boulzaguet, R. 2096 Bourdoiseau, G. 565, 2835, 3137 Bourg, J. A. 1476 Bourgogne, J. 2999 Bourland, J. 854 Bourne, A. 3202 Bourne, A. 32 Bourne, A. S. Bourne, A. 3,202
Bourne, A. S. 261
Bousquet, J. 1420
Bowen, G. S. 1577
Bowers, W. S. 1474
Bowler, K. 1690
Bown, D. N. 533, 3043
Boyle, P. A. 1473
Boyt, W. P. 2150
Bracke, J. W. 2057
Bradfield, J. Y. 2191
Bradley, J. W. 1886
Brady, J. 1673
Brady, U. E. 2062
Braide, E. I. 3078
Bram, R. A. 661
Bramhall, E. L. 2928
Branagan, D. 2955
Brandrup, F. 1780
Bransby-Williams, W. R. 791, 1656
Bras, S. le 2492 Bras, S. |e 2492 Brasil, D. 2085 Brayerman, Y. 182, 1357, 2992
Bray, R. S. 2098
Breed, M. D. 999
Brengues, J. 1264, 1329
Brennan, J. M. 278
Bressau, G. 694
Brestkin, A. P. 319
Brethour, J. R. 1701, 1702
Brewer, M. 493
Brick, I. J. 319
Bridges, A. C. 1649
Briegel, H. 218
Briesch, P. E. 3079
Briganti, L. 987 2992 Briesch, P. E. 3079
Briganti, L. 987
Brighton, W. D. 1207
Brill, J. H. 656
Brinker, J. P. 2127
Briscoe, J. J. 3060
British Columbia, Vancouver Research Station 2014
Britt, W. J. 2905
Brobst, D. F. 2248
Broce, A. B. 1708
Broda, S. 1516
Brody, M. S. 1346
Brohult, J. 1046 Brohult, J. 1046 Bromberg, A. I. 248 Brömel, J. 934 Bronswijk, J. E. M. H. van 933, 1799, 2018, 2563, 2912 Brooks, G. D. 1306 Brooks, G. T. 300, 690, 1460 Brooks, M. A. 1001 Brossard, M. 1751 Brossut, R. 35 Brostoff, J. 1207

Brousse-Gaury, P. 49, 743, 745 Brown, A. W. A. 533, 2753 Brown, D. 2324 Brown, D. G. 1467 Brown, G. 1804 Brown, G. R. 2535 Brown, H. E. 899 Brown, H. E. 899
Brown, J. K. 1877, 2483
Brown, K. R. 579, 1143
Brown, S. E. 1897
Brown, S. J. 914, 1759
Brown, T. M. 829, 2753
Browne, L. B. 1167, 2189
Brownell, A. J. 157
Brownell, A. J. 157
Browning, C. R. 425
Bru, A. 1217
Bru, Y. 1217
Bruen, J. 110
Bruen, J. P. 2970
Brummer-Korvenkontio, M. 995, 2973 Brummer-Korvenkontio, M. 995, 2973
Brunet, P. C. J. 1518
Brunner, J. 2497
Bruno, D. W. 1654
Brust, R. A. 782, 813, 1316, 2130, 2404, 2748
Bryan, J. H. 2099, 2738
Bryukhanova, L. V. 498
Bucci, A. 835
Buchan, P. B. 6
Buchatskiř, L. P. 2102
Buchatskiř, L. P. 1061 Buchatskii, L. P. 210 Buchatsky, L. P. 106 Büchel, K. H. 296 Buchner, E. 2520 Buckner, R. L. 2011 Budwiser, P. D. 1547 Budylina, A. A. 248 Buéi, K. 118, 3073 Buescher, M. D. 150 Bukshtynov, V. I. 576, 2255, 2471 Bullini, L. 972 Bulman, G. M. 1992 Bulychev, V. P. 1559 Bunnag, T. 2799 Burden, G. S. 316 Burgdorf, W. H. C. 2654 Burgdorfer, W. 412, 921, 1762, 2206 Buriro, S. N. 1996, 3193 Burney, M. I. 2450 Burns, E. C. 3168 Bursell, E. 2149, 3135 Burton, J. J. S. 1142 Busch Iversson, L. 125 Buse, E. 2371 Bullini, L. 972 Buse, E. 2371 Bush, G. L. 2275 Bush, M. A. 641 Bushrod, F. M. 1 Bushrod, F. M. 131
Businco, E. 2648
Businco, L. 2648
Bussicras, J. 2244
Busvine, J. R. 63
Butenko, A. M. 247
Butler, G. D. 1073
Butler, J. F. 1990
Butler, L. 395, 1161
Butt, M. A. 3061
Butterworth, D. E. 156
Büttiker, W. 838, 1232, 1236, 1237, 1238, 1662, 2990 131 Buxton, B. A. 3085 Byford, R. L. 1192 Bygrave, F. L. 2179 Caabeiro, F. Rodríguez 1481 Cabrera, B. D. 2695 Cabrera, F. 1345 Cabrera, F. A. 2086 Cabrera P., F. A. 2047 Caccres, I. 273

Caceres, I. 273
Cagampang-Ramos, A. 1635
Cagnard, V. 2664
Cahoon, B. E. 1578
Cai, L. Y. 1034
Caliabria, P. V. 1018
Calisher, C. H. 527, 828, 2047
Call, D. L. 1239
Cals, P. 49
Calvo, M. A. 2734, 2903
Camargo, M. E. 1102

Author Index Cameron, A. L. 801 Camhi, J. M. 1524 Camicas, J. L. 2603 Camino, M. L. 1990 Campbell, A. 928, 1188, 2559, 3192 Campbell, A. R. 2351 Campbell, B. J. 682 Campbell, C. C. 2208 Campbell, F. L. 1000 Campbell, F. L. 1000
Campbell, G. S. 2982
Campbell, J. B. 1703
Campbell, J. J. 2191
Campbell, M. M. 553
Campos, E. G. 1028, 1282, 1550 1550
Canada Agriculture 2694
Candeletti, T. 796, 2397
Candler, W. H., Jr. 3244
Cane, J. H. 2496
Canese, A. 64
Capela, R. A. 1639, 1640, 2089
Capizzi, R. 281
Capra, F. 2331
Cardarelli, N. F. 696
Cardozo, J. V. 70
Carey, A. B. 648
Carley, J. G. 1323, 3084
Carlson, D. A. 1292, 1336, 1879
Carlson, S. D. 380, 1057 2089 Carlson, D. A. 1292, 1336, 1879
Carlson, S. D. 389, 1957
Carnevale, P. 1848, 2413, 2466
Carney, A. S. 2619
Carpenter, J. C., Jr. 3168
Carpenter, J. L. 2024
Carr, C. E. 3013
Carrasco, J. 2071
Carroll, F. A. 3147
Carroll, F. A. 3147
Carroll, P. R. 2660
Carson, C. A. 1761
Carteron, R. 1075
Carvalho, A. L. M. 1663
Casaglia, O. 835
Casals, J. 653, 993, 2572, 2903, 2971, 2980
Case, T. J. 2761
Caserio, G. 482
Casida, J. E. 693, 953, 1466
Casse, W. J. la 2100
Casta-Velez, A. 1643
Castillejos Guízar, R. 2904
Castillo, J. M. 2802
Castro Gomes, A. de 125
Catley, A. 2313
Catterall, W. A. 949 Castro Gomes, A. de 125 Catley, A. 2313 Catterall, W. A. 949 Catts, E. P. 2478 Cavey, W. A. 2702, 3165 Cawdery, M. J. H. 2293 Cawley, B. M. 1066 Cedeño-Ferreira, J. 1278 Cedeño, M. L. 1348 Cedillos, R. A. 74 Centre for Overseas Pest Research, United Kingdom Centurier, C. 729, 2155, 2594, 3157 Černý, V. 1440, 2561
Cerqueira, E. 1018
Cerqueira, E. J. L. 497
Cerqueira, N. L. 2764
Cervantes González, D. G. 3041 Cesari Rossi, M. G. 1960 Cesaroni, F. 2516 Chadli, A. 1360 Chafee, F. H. 2541 Chagin, K. P. 9, 2388 Chaika, S. Yu. 1013 Chaix, M. O. 2538 Chaker, E. 2810 Chakrabarti, A. 2008, 2246 Chakrabarti, S. C. 3101 Chalkley, J. 1062 Challier, A. 201, 202, 203, 570, 571, 572, 1381, 1383, 1935, 2826, 2827 Chamberlain, W. F. 1705 Chambers, D. M. 1620 Chambers, H. W. 3232 Cesari Rossi, M. G. 1960

Chambers, J. E. 702 Chan, K. L. 1063 Chan, K. L. 1003 Chan Kai Lok 2755 Chanas, A. C. 2592 Chance, M. L. 2814 Chand, N. 2539 Chandelier, E. L. 489 Chandler, P. J. 902 Chandler, P. J. 902 Chandrahas, R. K. 1297, Chaney, A. H. 1389 Chang, M. S. 542 Chang, S. C. 1700, 1940 Chaniotis, B. N. 21, 3024 1297, 1912 Chanteau, S. 2381
Chapman, H. C. 1305
Chapman, M. D. 937
Chapman, M. D. 937
Charlet, L. D. 3225
Charlois, M. 1074
Charlwood, J. D. 155, 169, Charlwood, J. D. 155, 169, 335, 1338, 1572, 2793
Charyev, O. Ch. 254
Chateau, R. 1053, 2780
Chatterjee, A. 2246
Chattopadhyay, D. 2246
Chaudhry, H. S. 878, 1397, 2527 Chaudhry, H. S. 878, 1397, 2527
Chaudhry, N. I. 61
Chaudhry, S. 179, 1924
Chebret, M. 2746, 2785
Chelliah, R. V. 1636
Chen, H. B. 2429
Chen, N. Y. 1033
Cheney, J. 1403
Cheng, M. L. 2359
Cheng, Y. L. 2913
Cheong, W. H. 2695
Chernova, N. A. 767, 1023
Chernykh, P. A. 1744
Chi, C. 389, 1957
Chieffi, P. 1102
Childress, L. V. 144
Chiles, R. E. 3076
Chillemi, S. 2891
Chin, C. T. 984, 985
Chin, W. 3079
Chinel, L. V. 992
Chino, H. 314, 317
Chio, L. C. 1473
Chiriboga, J. 1643
Chmurzyńska, W. 2033
Cho H. W. 2357 2527 Chiriboga, J. 1643 Chmurzyńska, W. 2033 Cho, H. W. 2357 Chong, Y. K. 627, 1810 Chooi, C. K. 2806 Chooi Chin Khoon 2806 Chopra, K. 3148 Choudhary, M. A. 2117 Choumara, H. Bailly-2810 Chouvet, B. 3213 Chow, C. Y. 1059 Chowdhury, S. H. 1963 Chrin, L. R. 17, 1051, 1571, 2419 2419 Christensen, B. M. 11, 137, 1535 Christensen, C. M. 867, 2494 Christensen, H. A. 21, 2136, 3024, 3115 Christensen, J. B. 90, 1137 Christophers, S. R. 1598 Christophers, S. R. 1598 Christy, J. E. 414 Chu, H. F. 983 Chubachi, R. 790 Chubkova, A. L. 2000 Chumakov, M. P. 2902 Chumakova, I. V. 502 Chungue, E. 2381 Chunikhin, S. P. 2607, 2608, 2910, 2979 2910, 2979 Chunikkin, S. P. 2215 Chunina, L. M. 1683, 2511, Chunna, L. M. 1683, 251 2845 Cibula, W. G. 1315 Cicchetti, R. 2762 Cifelli, S. 18, 862 Ciolca, A. 2529 Clair, M. 200, 1121, 3137 Clanton, D. C. 1703 Clapper, D. R. 2249 Clare, N. 1696 Clarke, H. C. 731 Clark, H. F. 3189 Clarke, A. J. 577 Clarke, J. L. 3053

Clarke, J. L., Jr. 1615 Clausen, P. J. 1410 Clauss, C. 1420 Clay, M. J. 1166 Claydon, N. 604, 1470 Clement, S. L. 1137 Clifford, C. M. 245, 1181, 1431, 1768, 2577, 2622, 2966 Clopton, J. R. 543 Cloudsley-Thompson, J. L. 1311 Clough, G. 2188 Coats, J. R. 1473 Cocchiaro, G. F. 1835 Cochran, D. G. 1526, 2056, 2328 Cochrane, A. Cochrane, A. H. 528 Cockbill, G. F. 1385 Cockbill, G. F. 1385 Cocke, J. 1649 Coelho, M. de V. 1926 Coetzee, M. 1614, 2768 Cogan, B. H. 3029 Coimbra, T. L. M. 1050 Colbo, M. H. 187, 845, 1113, 2455 Cole, A. J. 1696 Cole, S. J. 525 Colella, G. 835 Coler, R. R. 286 Coler, R. R. 2867
Collado, J. Gil 329, 1483, 1490, 1493
Colless, D. H. 352, 520, 3158
Collett, G. C. 1299
Collins, C. 1391, 2843
Collins, F. H. 103
Collins, F. H. 1883
Collins, R. C. 364
Collins, R. C. 364
Collins, R. T. 1587
Collins, W. E. 1337, 1595, 1596, 3079
Colmenares, P. 1539, 1540 2867 1596, 3079
Colmenares, P. 1539, 1540
Colombini, M. 973
Coluzzi, M. 971, 2101, 2358
Colwell, A. E. 211, 2482, 2484, 2485
Coma, S. Mas- 312
Combs, J. C. 2873
Comins, H. N. 429, 645, 1752, 2272, 2666 Commonwealth Institute of Commonwealth Institute of Biological Control 2986 Conde, J. E. 2072 Condon, W. J. 2820 Condy, J. B. 1122 Conklin, R. D., Jr. 940, 1789 Connell, J. 3201 Connell, J. A. 2882 Conner, G. E. 1888 Connor, J. 806 Consolim, J. 348 Consolim, J. 348 Contacos, P. G. 1337, 3079 Contini, C. 2094 Contreras, S. 1480 Conway, G. R. 429, 1752 Cook, B. 1766 Cook, E. F. 1408, 1675 Cook, I. M. 261 Cooke, J. R. 1239 Coombs, M. E. 2349 Coons, L. B. 1983 Coosemans, M. 1080, 1564 Consoling, D. 1872 Biological Control 2986 Coons, L. B. 1983 Coosemans, M. 1080, 1564 Coppage, D. L. 872 Corberand, J. 1217 Cordellier, R. 1080 Cordonnier, J. L. 1195 Cornelissen, A. W. C. A. 2 Cornell University 1239 2792

College of Agriculture and Life Sciences 1239, 2290 Cornes, M. A. 2824 Cornet, J. P. 2603 Cornet, M. 166, 1052, 1053, 2734, 2780, 2811 Cornett, J. W. 3186 Cornish, J. 450 Corongiu, F. P. 2435 Corrêa, R. de R. 1019

Correa, R. H. López- 1345, 1643 Correia Rodrigues, V. L. C. 67, 68 Corrier, D. E. 1761 Corwin, D. 1768 Cory, J. 2974 Coscarón, S. Cosci, P. 854
Cosmao, V. 2253
Costa, J. O. 2616
Costa, M. 2893
Costello, R. A. 1298 Cotton, D. C. F. 1695 Cotugno, A. 2891 Coulanges, M. 2692 Coulanges, P. 2408, 2692 Coulm, J. 842, 1116, 1932, 2836 Council of Medical Research, India 2038
Couraud, F. 2659
Couret, D. 1119, 1120, 1935, 2826, 2827, 2831, 2833, 3128, 3129, 3130, 3131
Courtemanch, D. L. 1552
Courtois, B. 1080
Cousserans, J. 2363
Coutts, H. H. 1386
Covell, C. V., Jr. 157
Covisa, A. Sánchez- 1482, 1484, 1488, 1490, 1494
Coz, J. 159, 2459, 2465, 3036
Craig, G. B., Jr. 80, 1044, 2410, 2766, 3033
Cramer, H. H. 462 Council of Medical Research, Cramer, H. H. 462 Cramer, H. H. 462 Crampton, P. L. 644 Crans, W. J. 796 Cravedi, P. 482 Crawford, H. T. 2741, 2742 Cremer, J. E. 435 Cremers, H. J. W. M. 2242 Crespo, O. 1589 Criado, A. Gil 2673 Cristescu, A. 1242, 1322 Cristodorescu, G. 1242 Cristodorescu-Nicolescu, G. 1322 1322 Crnjar, R. 1157, 1158 Crnjar, R. 1157, 1158 Cromroy, H. L. 1171, 2240 Crook, S. 2554 Cropp, C. B. 1577 Croset, H. 2446 Cross, J. H. 2735 Crosskey, R. W. 562, 2824, 3029 Crossley, A. C. 1413 Crovello, T. J. 1408 Crowder, L. A. 484, 3000, 3002 Croydon, J. 2180 Crump, A. J. 1673 Cruz, J. de la 406, 407 Cruz, W. J. 831 Cuadrado-Méndez, L. 1483 Cubar, C. C. 2075 Cuevas, L. 2047 Cuisance, D. 200, 565, 1121, 2835, 3137 Cuisance, D. 200, 365, 1121, 2835, 3137

Cummings, R. F. 2417, 2418

Cummins, K. W. 78

Cunha, J. T. de 1019

Cunha-Melo, J. R. 290

Cunha Ramos, H. da 2089

Cunnington, A. M. 1219, 2650

Cupp, E. W. 1646, 3078

Currier, R. W. 137, 1535

Curtis, C. F. 1062, 2092, 2265, 2268, 2721, 2723

Cushing, C. E. 1930

Cuthbert, O. D. 1207, 2634

Cutilas Barrios, C. 1485

Cutkamp, L. K. 2325

Czechowski, W. 234

Czubik, T. Badowska 959 Czubik, T. Badowska-Da Cunha Ramos, H. 2089
Da Rocha e Silva, E. O. 67,
68, 961, 1015, 1102, 2709
Da Serra Freire, N. M. 2682
Da Silva e Rocha, E. O. 2069,

Da Silva Mouga, D. M. D. 964 Da Silva, N. R. S. 2681 Dabagh, M. Al- 2472 Dabrowska-Prot, E. 2756 Dabrowska-Prot, E. 2756 Dabydov, G. S. 60 Dadd, R. H. 133, 519, 1906 Dagan, D. 1524 Daggers, J. A. 1631 Daggers, S. A. 2086 Daham, N. K. Al- 1339 Dahlman, D. L. 1946 Dakroury, A. El- 2943, 2944, 2944, 2945 Dalgarno, L. 2088 Dalton, T. 3178 Daly, P. J. 3172 Daly, P. J. 3172
Damassa, A. J. 405
Dame, D. A. 509, 801, 1326, 2129, 2396
Dammin, G. J. 250
Dancesco, P. 1360
Danebekov, A. E. 2377
D'Angelo, L. J. 1758
Daniel, M. 1993, 2561, 3180
Daniel, M. J. 725
Danielová, V. 126, 1343
Danielova, V. 2572, 2573, 2971 2971 Danish Pest Infestation
Laboratory 735
Danner, G. 3018
D'Antonio, R. 15
Dar, F. K. 3138
Dar, M. S. 3138
Dar, M. S. 3138
Dar, N. 2927
Darji, N. 1387
Darskaya, N. F. 1021, 2347
Darwazeh, H. A. 115, 116,
117, 1855, 2744
Dary, C. C. 484
Dary, C. C. 484
Das, P. K. 540, 1909, 1911,
2770, 2775
Das, S. K. 2158
Dasgupta, B. 2158
Dasgupta, B. 2158
Datt, S. C. 1455, 2646
Datta, S. 320
Datta, V. K. 2939, 2940, 2941
Davey, K. G. 65, 494, 2067
Davey, M. W. 539
Davidson, E. W. 1087, 1088
Davidson, G. 2265, 3048
Davidson, J. H. 3113
Davidson, W. R. 674
Davies, D. M. 187, 1944
Davies, D. M. 187, 1944
Davies, J. B. 505, 1109, 1110,
2453
Davies, J. E. 180, 1658 Danish Pest Infestation 2453 Davies, J. E. 180, 1658 Davies, L. 2460 Davis, D. I. 630 Davis, E. E. 1982 Davis, E. E. 1982
Davletklychev, A. A. 1152
Daxl, R. 2284
Daza, M. Muñíz 2673
Dazhiev, A. Z. 2675
De Abreu Saccheta, L. 1050
De Almeida, F. Barbosa 1279
De Almeida Rodrigues, B. 2034 De Andrade, J. C. Rehder 67, De Arruda-Mayr, M. 13, 5 De Barjac, H. 1475, 2029, 2253, 2818 De Barrera, I. B. 2583 De Barros, J. A. C. 1102 De Benedetto, H. D. 204 De Castro Gomes, A. 1 De Cunha, J. T. 1019 De Freitas, R. A. 1100 De Grillo Torrado, C. E. de B. 2657
De Isola, E. L. D. 2704
De Jalón, D. G. 1499
De Kort, C. A. D. 1502
De la Cruz, J. 406, 407
De la Peña, M. C. 2422
De Leeuw, G. 1712
De León, D. 2889
De Licastro, S. 1541, 2079

De Loof, A. 1743, 2173 De, M. L. 453, 454, 455, 1240 De Mello Ferreira, M. J. 2856 De Mello, J. A. 1279 De Melo, H. J. H. 2676 De Moraes, A. P. Assis 2442 De Oliveira, C. M. B. 2686 De Oliveira Filho, A. M. 71, 2336, 2337 De Piñero, D. Feliciangeli De Piñero, D. Feliciangeli De Priester, W. 1712, 2509 De Souza, J. A. A. 2078 De Souza Lopes, H. 2890 De Souza Lopes, O. 1050 De Vasconcellos Coelho, M. 1926 1926
De Vásquez, A. M. 3024
De Villar, M. 2079
De Villiers, I. L. 655
De Vos, J. P. 418
De Vos, V. 3139
Dearn, J. M. 2883
DeBach, P. 98
Debenham, M. L. 1093
Debisschop, M. J. 2649 Debenham, M. L. 1093 Debisschop, M. J. 2649 Deco, M. A. Di 2101 Dedet, J. P. 3114, 3116 Deepak, V. 1397, 2527 DeFoliart, G. R. 158, 523, 809, 833, 1072, 1647 Dégallier, N. 2732, 3030 Degli Angeli, A. 480 Degoga, I. S. 1224 Degregorio, J. P. 284 Deisakhis, L. A. 1027 Deitz, L. L. 2048, 2058 Dejoux, C. 192, 3241 Del Tanago, M. G. 1499 Dejoux, C. 192, 3241
Del Tanago, M. G. 1499
Delaveau, P. 1341
Delecolle, J. C. 2810
Delespesse, G. 2649
Delfino, M. 493
Dellamonica, P. 3210
Delmas, F. 1533
Deloach, J. R. 872, 1714, 2524
DeLoach, J. R. 3229
Delucchi, V. 2750
Demina, V. T. 121
Demnah, J. 159, 2459, 3036 Dempah, J. 159, 2459, 3036 Den Boer, J. 2909 Den Boer, M. H. 2909 Denke, A. M. 846, 2144 Denlinger, D. L. 1693, 2191 Denmark, Pest Infestation Denmark, Pest Infestation
Laboratory 735
Dennis, D. S. 1553
Dent, M. A. R. 3238
Department of Agricultural
Technical Services, South
Africa 310, 2987
Department of Agriculture for Northern Ireland, United Kingdom 2005 Department of Agriculture, Western Australia 38 Department of Veterinary and Tsetse Control Services, Zambia 2461, 2462 Dera, B. 55 Derache, R. 307 Derbeneva-Ukhova, V. P. Dergacheva, T. I. 184, 2139 D'Erme, A. 2515, 2743 DeRoth, L. 2539 DeRouen, S. M. 3168 Derylo, A. 755, 1430, 1936 Desai, S. C. 671 Desch, C. E., Jr. 277 Desjeux, P. 3116 Despax, R. 2994 Desrochers, B. 1604 Detra, R. L. 1608, 1609 Deutscher, G. H. 2479 Dev, V. 514 Dev, V. 514
Devaney, E. 345
DeVaney, J. A. 420, 421, 2023
DeVries, D. H. 2863
Dhanda, V. 646, 1204
Dhar, K. L. 2670
Dhar, S. 1183
Dillor, M. S. 106, 117

Dhillon, M. S. 105, 117

Di Deco, M. A. 2101 Dias, J. C. P. 2707 Díaz, B. Sánchez 1060 Dick, G. F. 2654 Dickerman, R. W. 2779 Dieng, P. L. 1052, 1053, 2780 Dietrich, M. 991 Dietz, W. H., Jr. 2368 Digoutte, J. P. 544, 2438, 2732
Dikaev, B. Yu. 2605
Dindal, D. L. 1991
Dipaola, E. A. 2779
Dipeolu, O. 3044
Dipeolu, O. O. 3106
Dirkx, C. 1961
Divakar, B. J. 128
Divo, A. 2076
Dixon, K. E. 2801
Dobson, R. C. 867
Dockhorn, R. J. 675
Dodd, G. 148 2732 Dobson, R. C. 86/
Dockhorn, R. J. 675
Dodd, G. 148
Doggett, D. W. 141
Dogliotti, M. 3227
Dohany, A. L. 3217
Doherty, R. L. 3084
Döhring, E. 456, 460, 465
Dolgikh, A. M. 1744
Dolotova, L. A. 1846
Dolphin, R. E. 669
Domenichini, G. 478
Dominok, B. 2066
Domrow, R. 947, 1216, 2715
Donaldson, J. M. I. 340
Donato, H. 397
Donelly, J. 2952
Dong, X. S. 1082
Dönges, J. 2950
Donnelly, J. 2210
Dorrestein, G. M. 418, 1799 Donnelly, J. 2210
Dorrestein, G. M. 418, 1799
Dorsey, D. C. 137, 2127
Douayere, B. 1380
Doube, B. M. 1200, 1755, 1976, 2618
Doucet, J. 2664
Douglas, R. B. 2114
Douglas, R. G., Jr. 2279
Downer, R. G. H. 314, 317, 1837, 2699
Downing J. 1248 Downing, J. 1248
Downs, T. D. 3052
Doyle, J. J. 1933
Drabek, J. 1462
Draber-Mońko, A. 2473
Drabkina, A. A. 800
Drägånescu, N. 2430
Dray, F. 1275, 1692
Dremova, V. P. 1225
Drewes, C. D. 53
Drobozina, V. P. 1558, 2107
Drongelen, W. van 2991
Droszcz, W. 3228
Drudge, J. H. 374, 2477, 3175
Drummond, R. O. 266, 1746 Droszcz, W. 3228
Drudge, J. H. 374, 2477, 2
Drummond, R. O. 266, 17
Dryer, R. F. 2619
D'Souza, T. J. 2921
Du Toit, C. L. N. 2768
Dubitskii, A. M. 2454
Dubrovskaya, V. V. 2807
Dubrovskii, Yu. A. 557
Duckrow, R. B. 742
Duff, G. 227
Duffield, A. M. 2660
Duffield, P. H. 2660
Dufrançais, C. BallanDuggan, J. J. 2291
Duhrkopf, R. E. 1922
Duijghuijsen, G. H. S. J. 2
Duke, K. M. 1785, 1974
Dukes, J. C. 1895
Dumser, J. B. 2302
Duncalfe, F. 1184
Dunlop, L. B. 227
Dunning, L. L. 2928
Duncaler, P. J. 252 266, 1746 1445 Dunning, L. L. 2928 Dunster, P. J. 252 Durrant, J. L. 398 Dusbábek, F. 282, 3180 Dusbabek, F. 2561, 2564 Dutau, G. 1217 Dutkiewicz, J. 1430, 2900 Duval, J. 1097, 1098, 2784 Duvallet, G. 1118

Duve, H. 1730 Dwievedy, A. K. 3 Dyce, A. L. 3108 Dyl'ko, N. I. 2354 381 Dymond, G. R. 752 Dymond, G. R. 752
Dzhivanyan, T. I. 2979
Dziedzicko, A. 1516
Eads, R. B. 327, 1028, 1290, 1550, 1718 East African Institute of Malaria and Vector-Borne Diseases 474
Easton, E. R. 2499 Ebbenhorst Tengbergen, T. van 2018
Eberhard, M. L. 356
Ebisawa, I. 723
Ebsen-Lenz, M. 908
Echaubard, M. 2492
Eck, W. H. van 383
Ecker, R. I. 676
Eckert, D. J. 522
Eckert, H. 1412
Eddin, F. M. GamalEdell, T. A. 2615
Edler, A. 672
Edman, J. D. 507, 1308
Edmonds, J. W. 500, 1549, 2350 2018 2350
Edmonds, W. D. 912
Edwards, F. W. 1637
Edwards, G. B., Jr. 293, 1223
Edwards, J. P. 1175
Edwards, P. B. 3109
Edwards, T. D. 1895
Egoz, N. 558
Ehlert, W. 1077, 1295
Ehrnsten, B. 1943
Eichler, W. 235, 236, 237
Eichorn, K. 1775
Eisa, M 3064
Ejima, T. 2522
Ekobo, A. Same- 2729
El-Dakroury, A. 2943, 2944, 2945 2350 2945 El-Fakahany, E. E. 3237 El-Fakahany, E. E. 323/ El-Fiki, S. A. 697 El-Gayar, F. 657 El-Gayar, F. H. 2887 El-Khodary, A. S. 2887 El-Rab, M. O. G. 886 El-Sebae, A. H. 697 El-Schammaa, N. A. El-Sherif, S. I. 1039 El-Sid, E. D. K. 306 Elbihari, S. 1742 3064 El-Sid, E. D. K. 3064
Elbihari, S. 1742
Elce, B. 199
Elcoro, I. M. 1499
Eldridge, B. F. 1556
Eleazu, C. N. 1425
Elgert, K. D. 682
Elias, M. 2426
Eliott, L. 990
Eliseev, L. N. 2138
Ellgaard, E. G. 955
Ellington, C. P. 772
Elliott, K. D. 1429
Elliott, M. 1464, 1807, 3012
Elliott, W. B. 241, 2540
Ellis, D. S. 2153, 2470
Elowni, E. E. 1742
Els, H. J. 3105
Eisen, P. 559, 2143
Elston, J. 1896, 1897, 1898
Elton, R. A. 1313 Elston, J. 1896, 1897, 1898
Elton, R. A. 1313
Emanuelsson, H. 600
Emerson, J. K. 2615
Emerson, K. C. 2065
Emery, D. L. 3086
Emmons, R. W. 85, 134, 1851
Encinas Grandes, A. 1489
Enescu, A. 1242, 1322
Engelmann, F. 997
Engler, S. 469
English, A. W. 911
Enjaume, C. 1217
Entente Interdépartementale
pour la Démoustication du pour la Démoustication du Littoral Méditerranéen, France 170, 171
Enyong, P. 2729
Éouzan, J. P. 2836
Epstein, H. M. 1785, 1974

Eram, S. 1294 Erami, S. 1294 Eremina, L. G. 2528 Ermakov, V. V. 2948 Ermakova, G. I. 2112 Ermini, G. 759 Errard, C. 226, 625 Ershova, L. C. 2216 Ershova, L. S. 1030 Ershova, L. C. 2216
Ershova, L. S. 1030
Erwa, H. H. 886
Escaffre, H. 1363, 1665
Escalante, G. 1014
Eschle, J. L. 1407
Eshghy, N. 1289
Eshita, Y. 819
Eskafi, F. M. 2949
Espinola, H. N. 2706
Espinola, H. N. 2706
Espmark, Y. 3174
Etchevers, B. A. 284
Etkind, P. 1998
Eto, M. 1463
Ette, M. 2664
Ettinger, W. S. 5
Evans, D. A. 41, 2153, 2470
Evans, D. E. 2679
Evans, D. S. 2468
Evans, J. M. 1210
Evans, P. D. 752
Evenhuis, H. H. 624, 2503
Everhuis, N. L. 3035
Evered, A. D. 449
Eysing, B. 738
Faaruia, M. 355
Fabiyi, A. 2596
Fabre, J. 2733
Fagbami, H. 3044
Fagotti, V. 973 Fabre, J. 2733
Fagbami, H. 3044
Fagotti, V. 973
Fahel, E. E. 2708
Fain, A. 273, 274, 280, 673, 854, 945, 946, 1445, 1450, 1451, 1774, 1793, 2013, 2247, 3219, 3231
Fain, J. N. 1139, 1140
Fairchild, G. B. 3161
Fakahany, E. El- 3237
Falana, S. 'T. 567
Fall, R. P. 2795
Fallas B., F. 3118
Fallis, A. M. 2295
Fanara, D. M. 530, 532, 1583, 1586, 1892 Fanara, D. M. 530, 532, 15 1586, 1892 Fanara, D. N. 1923 Fanning, I. D. 1323 Faran, M. E. 2767, 3081 Faraone, U. 2516 Farley, D. G. 91, 107, 108, 1863 Fashing, N. J. 1707
Fattah, K. M. A. 3002
Fauran, P. 124, 2438
Faux, A. 627, 1810
Federal Research Institute for Federal Research Institute to Dairy Science Liebefeld-Bern, Switzerland 2181 Federici, B. A. 190, 3066 Fedin, A. I. 242 Fedin, A. N. 3009 Fehr, R. 746 Feinsod, F. M. 2095, 2116 Feldman-Muhsam, B. 2562 Feldman, R. A. 2208 Feldman, R. A. 2208 Feldmann, R. J. 2946 Feliciangeli de Piñero, D. 71, 73 73
Fernández, P. García 1487
Ferrar, P. 586, 1681
Ferraroni, J. J. 1057
Ferreira, J. Cedeno- 1278
Ferreira, M. C. 1966
Ferreira, M. J. de M. 2856
Ferreira, O. A. 1015, 2069, 2070
Ferreira Santos, J. L. 2070
Ferrer, R. Sifontes 1058, 1060
Ferretti, C. Taddei- 2891
Ferrucci, L. 818, 2094
Fet, V. Ya. 2935
Fetter-Lasko, J. 102, 1866
Février, J. 565, 2835, 3137
Fichoux, Y. le 3210
Fiedler, O. G. H. 668
Fields, B. N. 250
Figuetredo, M. J. 2336 2070

Fiki, S. A. El- 697 Filipe, A. R. 653 Filippich, C. 1323, 3084 Fincher, G. T. 244, 1740 Fine, P. E. M. 1314, 1353 Finke, J. H. 682 Finney, J. R. 294, 1304, 2820, 2825 Firstenberg, D. 3020 Fischer, J. 876 Fischer, M. 1685 Fischer, J. 876 Fischer, M. 1685 Fisher, C. W. 2062 Fisher, R. A. 2786 Fisher, W. F. 1218 Fitzwater, J. E. 3201 Flamand, A. M. G. 275 Flamand, A. M. G. 2/3 Flament, J. 2649 Flannagan, J. R. 2894 Flasshoff, F. G. 2012, 2239 Flechtmann, C. H. W. 1453 Fleissner, G. 3233 Fleming, G. A. 530, 532, 1586, 1892, 1923 Fleming, G. A. 530, 532, 1586, 1892, 1923
Fletcher, C. R. 763
Fletcher, J. E. 2540
Fletcher, J. E. 2540
Fletcher, P. L. 681
Fletcher, P. L. Jr. 3238
Fletcher, T. C. 2914
Fligge, B. 1412
Flower, N. E. 1956
Flower, P. J. 272
Flück, V. 1462
Focks, D. A. 801, 1579, 1613
Foil, L. D. 684, 951, 3232
Foley, D. A. 1332
Foley, D. A. 1332
Folz, S. D. 940, 1789
Fomina, K. B. 2963
Fominych, V. G. 1135
Fondren, J. E., Jr. 385
Fontaine, R. E. 1884, 2794, 3053, 3065
Fontenelle, T. J. Heitzmann-1277 1277 Food and Agriculture Organization 194, 195, 196, 197, 198, 2316
Forattini, O. P. 67, 125, 1015, 2069, 2070, 2709 2069, 2070, 2709
Forino, D. 2516
Forrester, D. J. 12, 365
Forslund, J. 1046
Forsyth, B. A. 3164
Foster, N. M. 2809
Foumbi, J. 1074
Fourtner, C. R. 53, 3013
Fowler, J. E. F. 1326, 1618
Fox, I. 2889
Foxhoven, T. L. 2380
Fraenkel, G. 216
Fraiha, H. 2505, 2812, 3112
France, Entente France, Entente Interdépartementale pour la Démoustication du Littoral Méditerranéen 170, 171
France, K. R. 1628
Franco, M. G. 1149
Francy, D. B. 828, 1631
Frank, A. M. 1610 Frank, A. M. 1610 Franklin, E. R. 1820 Franz, J. M. 2355 Fraser, B. N. 2701 Frazar, E. D. 2884 Frazee, J. R. 732 Frazier, C. L. 3084 Frazier, J. L. 684 Frediani, T. 2648 Freeman, P. 3029 Freire-Maia, L. 290 Freire, N. M. da Serra Freitas, R. A. de 1100 French, A. S. 1716, 1838, Frerichs, W. M. 2576 Frey, H. 1134 Frey, M. 292 Frezil, J. L. 1116, 1932 Frézil, J. L. 2466, 2836 Friberg, F. 1664 Friedel, T. 2323 Friedman, S. 2329 Friend, A. L. 955 Friend, W. G. 323, 1537 1964

Frigerio, M. J. 2704 Frish, K. 2992 Fritz, L. C. 2251 Frolov, B. A. 2042, 2256, 2675 Fronk, W. D. 62 Frost, E. 1248 Fryauff, D. J. 1821 Fuchs, M. S. 2778 Fuhremann, T. W. 1947 Fuiii. I. 592 Fujimagari, M. 2869 Fujinagari, M. 2869 Fujisaki, K. 3104 Fujita, T. 700, 1043 Fujita, Y. 699 Fukani, K. 1650 Fukami, H. 3223 Fukuda, T. 3104 Fukusi, M. 3005 Fukui, M. 3005 Fukushima, C. K. Fukuto, T. R. 904 Fulde, S. 2938 Fuller, G. K. 836 Fulmer, J. 739 Funaki, E. 2869 Funasaki, G. Y. 25 Funatsu, M. 2522 Funes, E. S. 284 Funmilayo, O. 321 Funes, E. S. 284 Funmilayo, O. 3212 Furtado, A. 496 Furtado, A. F. 1020 Furumizo, R. T. 1310 Futrell, J. M. 685, 3234 Fye, R. L. 952 Fyvie, A. 2590 Fyvie, A. 2590
Gabinaud, A. 171
Gad El-Rab, M. O. 886
Gafurov, A. K. 1406
Gagel'gans, A. I. 2197
Gaidamovich, S. Ya 1763
Gajalakshmi, B. S. 3236
Gajanana, A. 1910, 2770
Gajudo, C. E. 542
Galante, E. 1968
Galati, E. A. B. 125
Galera, E. 1231
Galina, Z. A. 2106
Galindo, P. 2368
Gallagher, J. S. 1787, 2566, 2567 2567 2567 Galler, R. 513, 1913 Galloway, T. D. 2404 Galun, R. 2152 Gama, M. P. 2075 Gamal-Eddin, F. M. 447 Gan, E. I. 2137 Gan, E. Jankowska-55 Gan, E. Jankowska 55 Ganushkina, L. A. 2388 Gar, K. A. 2675 Garben, A. F. M. 2018, 2912 Garcia, E. S. 325, 490, 760, 761, 962 Garcia, M. L. M. 325, 490, 760, 962 Garcia, R. 1604, 2414, 3066 Garcovich, A. 281 Garcovich, M. 281 Gardiner, B. O. C. 2700 Garcovich, M. 281
Gardiner, B. O. C. 2700
Gardiner, P. R. 568
Gardner, L. C. 522, 2790
Garfagnini, A. G. 2234
Garg, R. 2536
Garland, C. D. 785
Garman, A. J. 1739 Garland, C. D. 785 Garman, A. J. 1739 Garms, R. 1110, 2453 Garnett, W. B. 631 Garnett, W. H. 1202 Garrett-Jones, C. 3057 Garris, G. I. 1193, 1194, 2907 Garvie, M. B. 3192 Garvie, M. B. 3192
Gasca Arroyo, A. 1491, 1491
Gaskin, J. M. 2591
Gasperi, G. 2495
Gasquet, M. 1533
Gass, R. F. 1067, 2730
Gatti, M. 2358
Gaughan, L. C. 1466
Gaur, P. 623
Gaury, P. Brousse- 49, 743, 745
Gautan, O. P. 1183, 2617 1491, 1492 Gautam, O. P. 1183, 2617, 3198

Gauzshteřn, D. M. 1022 Gaven, B. 171, 1588, 1589, 1590, 1591, 3037, 3039 Gayar, F. El- 657 Gayar, F. H. El- 2887 Gayral, P. 2786 Gayubo, S. F. 1967 Gebel, H. M. 682 Gebel, H. M. 682
Geck, R. 1509
Geden, C. J. 1822
Geest, L. P. S. van der 1117
Geissbühler, H. 300, 690, 1460
Gelashvili, D. B. 633
Gemeda, N. 836
Geng, S. 940, 1789
Gentinetta, V. 746
Gentry, W. C., Jr. 2654
Geoffroy, B. 2733, 2841, 3047
George, J. A. 2382
George, J. E. 1766
Georges-Gridelet, D. de Saint Georges-Gridelet, D. de Saint 933 Georghiou, G. 1857, 2285 Georghiou, G. P. 153, 903, Georghiou, G. P. 153, 903, 1352, 2374, 2863 Gerberg, E. J. 2398 Gerhardt, R. R. 2182 Germain, M. 989, 2603, 2733 Gerold, J. L. 1056 Gerrish, R. R. 674 Gersabeck, E. F., Jr. 188 Gertsch, W. J. 1458 Gerwen, A. C. M. van 1167, 2189 2189 Z189
Ghazal, A. 3237
Ghosh, A. K. 1797
Giannetti, M. 1671
Gibbs, A. J. 539
Gibbs, E. P. J. 2444 Gibbs, K. E. 1552 Gibson, T. E. 2951 Gichanga, M. M. 644 Giglioli, M. E. C. 180, 1658, 2398 Gil Collado, J. 329, 1483, 1490, 1493 1490, 1493
Gil Criado, A. 2673
Gilbert, B. 2336, 2337
Gilby, A. R. 3144
Gill, B. S. 268, 3188
Gill, H. S. 268, 3188
Gillani, S. 920
Gillaspy, J. E. 1741
Gillet, J. D. 525
Gillett, J. D. 793
Gillies, M. T. 2737
Gilot, B. 1340
Gillon, M. E. 87, 1881 Gilpin, M. E. 87, 1881, 1925 Gingrich, R. E. 375, 1566 Ginsborg, B. L. 741 Gingrich, R. E. 375, 1 Ginsborg, B. L. 741 Girardin, P. 1751 Gîrjabu, E. 2430 Giurcă, I. 1242, 1322 Given, B. B. 2058 Gladenko, I. N. 3250 Gladney, W. J. 3204 Glaser, A. E. 2063 Gleason, L. N. 2011 Gleason, L. N. 2011 Gleiberman, S. E. 2672 Glick, B. 2885 Gligić, A. 2217 Glover, K. M. 1249 Glukhova, V. M. 554 Godan, D. 2037 Godfrey, D. G. 2078 Godoy, T. L., Jr. 1018 Goellner, P. G. 2619 Goette, D. K. 2222 Goff, M. L. 278, 1449, 1772, 1786, 1788, 3221 Goff, R. 1256 Goff, R. 1256 Goff, R. J. 57, 1527 Gofman, Y. P. 2963 Gofman, Yu. P. 2000, 2586, 2963, 3090 Gogolewski, L. 2334
Gol'berg, A. M. 400
Goldberg, M. 1713
Goldfarb, L. G. 2902
Goldsmith, R. S. 1278, 3023 Goldstein, M. 1170 Gole, J. W. D. 2699 Golin, P. I. 1123

Goltz, J. 123 Gomes, A. de C. 125 Gómes, A. de C. 125 Gómez C., P. 186 Gómez, L. 1348 Gomez, M. V. 966 Gonidec, G. le 124, 2780 Gontijo de Paula, M. C. Gontijo de Paula, M. C. Henriques 966 Gonzaga, H. M. S. 290 Gonzales, J. C. 2229 Gonzalez, A. 424 González, A. 2026 González, A. Jiménez 1481 González, D. 2273 González, D. G. Cervantes 3041 Gonzalez, J. P. 2841, 3047 González, M. A. Reyes- 1278 González-Sponga, M. A. 687 Goodenough, J. L. 629, 1708, Gooding, R. H. 369, 1378, 1934 1934 Goodman, N. 2263 Goodwin, J. T. 1954 Gophen, M. 3067 Gorayeb, I. S. 1373 Gordeeva, Z. E. 1559 Gordn, G. 2273 Gordon, E. W. 94, 1884 Gordon, J. R. 2620 Gordon, R. 2820 Gorgas Memorial Institute of Tropical and Preventive Medicine 728 Tropical and Preventive Medicine 728 Gorgol', V. T. 2041 Gorio, A. 1802 Gorla, D. 493 Gorman, J. D. 1301 Górska, D. 907 Gorton, R. E., Jr. 739, 748, 999
Goswami, C. 321
Goswami, V. 1416
Gotgilf, I. M. 1173
Gothe, R. 2211, 2594, 2904
Goto, T. 3104
Goudey-Perrière, F. 743 Goudey-Perrière, F. 743 Gourreau, J. M. 2510 Gouteux, J. P. 201, 202, 366, 571, 572, 1119, 1120, 1381, 1382, 1383, 1669, 2826, 2827, 2833, 2834 Goyffon, M. 1234 Gozhenko, V. A. 515, 2376, 2747 Grab, B. 3099 Grab, B. 3099 Grácio, A. J. S. 1641, 1795 Gradoni, L. 2142 Graf, J. F. 918, 1435, 1989 Gräfner, G. 1106, 1107, 2261 Graham, J. E. 3190 Graham, L. L. MacKenzie-106 Graham, N. P. H. 893 Grainger, C. R. 3019 Granata, A. R. 1801 Grandes, A. Encinas 1489 Grandjean, P. H. Vercammen-Granett, J. 853, 1819, 2457 Grant, C. D. 83, 206, 1849, 2480
Grant, J. A. 1741
Grant, N. L. 2133
Gras, R. 1843
Grass, P. N. 808
Grassé, P. P. 2994
Grasso, A. 2252
Gratz, N. G. 70, 1059, 2403
Gray, G. G. 2264
Gray, J. H. 661
Grayson, M. A. 147
Greaney, J., Jr. 613
Green, C. A. 3075
Green, D. W. 2127
Green, I. 824 2480 Green, D. W. 2127 Green, I. 824 Green, L. A. 2534 Green, P. E. 1184, 2882 Greenwood, J. J. D. 1313 Greever, J. 1352 Gregor, F. 907, 3180 Greiner, E. C. 365

Gridelet, D. de Saint Georges-933 933 Griffin, L. 860 Griffith, J. K. 230 Griffiths, G. W. 2301 Grigarick, A. A. 100, 1854, Grigorevskaya, N. G. 242 Grillo Torrado, C. E. de B. 2657 2657
Grillo Torrado, J. M. 262
Grillot, J. P. 2739
Grinchuk, T. M. 598
Gringorten, J. L. 323, 1537
Grippo, R. S. 1823
Grijebine, A. 548, 2739
Grodhaus, G. 85, 1851
Groen, G. van der 990
Grokhovskaya, I. M. 1748, 1763, 2606 Gromashevskii, V. L. 2963 Gromashevskii, V. L. 2963 Gromashevskiii, V. L. 247, 1747, 3090 Gromashevsky, V. L. 2000, 2586
Groocock, C. M. 3204
Groot, H. 3077
Gross, W. B. 941, 1542
Grosscurt, A. C. 295, 1227
Groth, U. 2497
Grove, D. I. 1312
Grove, J. F. 604
Grover, K. K. 789, 1893
Grundy, J. H. 2317
Grunewald, B. E. 843
Grunsell, C. S. 2512
Grzelakowska-Sztabert, B. 2033 2586 2033 2033
Gu, Y. M. 1214, 2639, 2640, 2916, 2917
Gubbins, S. J. 1648
Gubler, D. J. 784, 1084, 1294, 1644, 2788
Guedes, F. 2077
Guest, R. T. 732
Guevara Benítz, D. 1487
Guevara Benítz, D. 1486 Guevara Bennez, D. 1486 Gueyara Pozo, D. 1486 Gugushvili, G. K. 1187 Guiglia, D. 1972 Guiguen, C. 2718 Guillen, J. L. 1479, 1482, 1488 1488 Guillen Llera, J. L. 1493 Guillet, P. 1363, 1665, 2459, 2465, 2818 Guilward, E. 777, 1342, 2115 Guimarães, J. A. 325, 761 Guimarães Proença, N. 1544 Guimarães Proença, N. 154 Guízar, R. Castillejos 2904 Gul, R. 3082 Gundel, M. 3011 Gunn, D. L. 2453 Gupta, A. P. 1828 Gupta, B. D. 514, 1839 Gupta, D. N. S. 2246 Gupta, P. 3249 Gupta, R. C. 1229 Gupta, S. C. 884, 1418 Gupta, S. K. 1796 Gupta, V. 2050, 2927 Gupta, V. 2050, 2927 Guptavanij, P. 1355 Gupta, S. K. 1796
Gupta, V. 2050, 2927
Guptavanij, P. 1355
Gurrola, M. A. H. 681
Guthrie, F. E. 583, 628, 1162
Guthrie, J. E. 2736
Gutierrez, M. C. 1858
Gutova, V. P. 2607, 2910
Guy, A. 2363
Gwadz, R. W. 824
Gwiazda, M. 1471
Gyorkos, T. W. 2245
Haahtela, T. 3222
Haas, G. E. 770
Hab, J. Abul- 2711
Haberkorn, A. 1016
Habermehl, G. 2250
Habersetzer-Rochat, C. 292
Habibulla, M. 2053
Hacker, C. S. 2359
Hacker, C. S. 2359
Hackman, R. H. 1713
Hackman, R. H. 1713
Hackman, W. 1952, 2728

Hadani, A. 643 Hadaway, A. B. 303 Haddock, J. D. 1561 Hadermann, F. 2173 Haeger, J. S. 337 Haeselbarth, E. 2716, 2717 Hafez, M. 79 Haggart, D. A. Haggart, D. A. 1982 Haile, T. 836 Hair, J. A. 1192, 1193, 1194, 2553, 2907 Haitlinger, R. 935, 1284, 1287, 1497, 1498, 1745, 1784, 2641, 2642 Hajjar, N. P. 812 Hakima, R. Abu-65 Halim, N. 1220 Hall, C. A. 1938 Hall, D. W. 1055, 1333, 1579, 2749 1982 Hall, C. A. 1938
Hall, D. W. 1055, 1333, 1579, 2749
Hall, I. M. 1136, 3066
Hall, M. J. R. 2500
Hall, R. D. 941, 1542
Hallas, T. E. 2345
Ham, P. J. 849
Hamann, H. J. 574
Hamdorf, K. 1412
Hamdy, S. 2943, 2944, 2945
Hammock, B. D. 1393
Hamnett, A. F. 2
Hamza, M. A. 1611
Han, T. W. 2225
Handa, S. M. 879, 3148
Handel, E. van 1629
Hang, L. C. 82
Hanisch, J. 52, 2060
Hanley, M. 797
Hanna, G. D. 1873
Hansen, C. P. 86
Hansen, C. W. 3049
Hansen, E. 1370
Hansen, E. J. 2862
Hansford, C. F. 537
Hanski, I. 636, 3183
Harbach, R. E. 2765
Harbov, D. D. 3196
Hardy, J. L. 831, 1068, 1578, 1852, 2970, 3076
Harfi, H. A. 2896
Hargrove, J. W. 368
Harinasuta, C. 2799
Harkrider, J. R. 1136
Harlan, H. J. 28
Harlos, J. 2404
Harris, E. G. 303
Harris, R. L. 220
Harrison, B. A. 1630, 1638
Harrison, B. A. 1630, 1638 Harrison, A. D. 438 Harrison, B. A. 1630, 1638 Harrison, J. B. 2521 Harrison, R. J. 2245 Harrow, I. D. 1840 Hart, R. J. 1163, 2702, 3165, 3203 Hartberg, W. K. 807, 810 Harvey, J. F. 95 Harvey, J. W. 2591 Harvey, T. L. 1701, 1702 Harwood, R. F. 2308 Haschka, M. 1448 Hasegawa, A. 2051 Hasegawa, T. 1417, 2486 Haser, R. 292 Hasegawa, I. 1411, 2440
Haser, R. 292
Hashimoto, K. 1902
Hass, D. K. 1680
Hassan, M. 1651
Hassell, M. P. 1255
Hastings, R. J. 1776
Hata, K. 822
Hati, A. K. 3224
Hatsushika, R. 2010
Haupt, A. Heller- 2554
Hausler, W. J., Jr. 137, 2127
Havukkala, I. 2983
Hawking, F. 978
Hayakawa, H. 890, 2486, 2840
Hayashi, A. 2488, 2852, 2869
Hayashi, K. 724
Hayatee, Z. G. 3211 Hayes, C. G. 1920, 2798, 3095 Hayes, J. 856, 1057, 1338, 2793, 3052 Hayes, R. D. 3116 Hayes, R. O. 2372 Hayes, S. F. 1762, 2206 Hayles, L. B. 152, 1089 Hayles, L. B. 152, 1089 Hays, S. B. 240 Hayward, L. D. 31 Hazelrigg, J. E. 1859 Hazlett, C. 2652 Healy, G. R. 3191 Healy, J. A. 2214 Heat, A. B. 1196 Heath, A. C. G. 599, 2001, 3197 3197 Hébrard, G. 559 Hecker, H. 1652, 3088 Hedman, P. 1046 Heffron, P. 1975 Hefnawy, T. 1428 Heinemann, S. J. 350 Heinrich, B. 1970 Heitz, J. R. 291, 385, 1573, 2661, 2662 Heitzmann-Fontenelle, T. J. 1277 Hellenthal, R. A. 1408, 1841 Heller-Haupt, A. 2554 Hem, D. G. 1331, 3059 Hembree, S. C. 1606, 1607, 1622 Heme, G. 166. 2603. 2733, 2780 Henderson, L. P. 813, 2130 Henneberry, T. J. 1245
Henrikson, S. A. 2653
Henriques Gontijo de Paula, M. C. 966
Hentonen, H. 2353
Henrid F. 1046 Heritonen, H. 2333 Herath, F. 1946 Herath, P. R. J. 2364, 3048 Herbert, W. J. 887 Herms, W. B. 2308 Herniman, K. A. J. 2444 Herniman, K. A. J. 2444 Herraiz, C. Sahuquillo- 1483 Herrer, A. 2136, 3115 Herrmann, J. 1664 Hertlein, B. C. 136, 141 Hervé, J. P. 2603, 2733, 3047 Hervy, J. P. 1079, 1582 Hes, R. van 295, 1227 Hess, R. 1108, 1370 Hess, R. T. 1900 Hess, W. R. 3204 Hester, P. G. 1605 Hewitt, P. H. 341 Heydorn, A. O. 255 Hewití, P. H. 341 Heydorn, A. O. 255 Heyne, H. 2016, 2551 Hibbs, C. M. 1703 Hicks, W. J. Warren-2341 Hiepe, T. 1106, 1775, 2044 Hightower, B. G. 900, 2523 Hii, J. 2852 Hii, J. L. K. 1320, 2789, 3169 Hildreth, S. W. 1898 Hill, F. W. G. 2512 Hill, J. A. 802, 2946 Hill-Rowley, R. 799 Hill, J. A. 802, 2946 Hill-Rowley, R. 799 Hillen, N. D. 1376, 1672 Hillerton, J. E. 871, 1720 Hillmann, R. C. 1003 Himeno, M. 2421 Hinaidy, H. K. 1134 Hinton, M. 371, 2467 Hintze-Podufal, C. 1833 Hirano, M. 699 Hiregoudar, L. S. Hirobe, H. 2937 2898 Hirschmann, W. 917 Hirschmann, W. 917 Hirst, S. 277 Hirth, C. 1443 Ho Wang Lee 994 Hobbs, J. H. 2208 Hochberg, Y. 1170 Hoff, R. 2077 Hoff, R. H. 2078 Hoffman, A. G. D. 2698 Hoffmann, D. R. 2035 Hoffmann, G. 457, 463, 2594, 2595

Author Index Hoffmann, K. H. 1261
Hofstead, S. J. 2790
Hoigné, R. 3184, 3185
Hojo, K. 204
Holan, G. 1469
Holden, J. S. 487
Holland, G. P. 1029
Holland, M. F. 2153
Hollings, N. 39
Hollis, P. D. 689
Holloway, G. A. 404
Holloway, M. L. 62
Hollowell, M. 216
Holman, R. C. 1758
Holman, R. C. 1758
Holmes, J. W., Jr. 1164, 11
Holroyd, R. G. 252
Holt, G. G. 1709
Holter, P. 913, 1421
Holzmann, T. W. 53
Homer, J. T. 3205
Hominick, W. M. 2894
Homsher, P. J. 2578, 2584
Hong, H. K. 2431
Honzakova, E. 2561
Hooft-van Asbeck, M. C. van Hoffmann, K. H. 1261 1164, 1166 Hooft-van Asbeck, M. C. van der 423 Hoogland, J. L. 501 Hoogstraal, H. 245, 256, 411, 976, 1181, 1431, 2211, 2362, 2577 2577
Hooper, G. H. S. 829
Hopfinger, A. J. 1468
Hopkins, P. S. 2882
Horak, I. G. 655, 3139
Horn, D. H. S. 627, 1810
Horn, E. 1685
Horner, N. V. 2025
Horsfall, W. R. 156
Hosek, J. 1792
Hotta, T. 1228
Houk, E. J. 831, 1068, 2301, 3076
Houlihan, D. F. 1953 Houlihan, D. F. 1953
House, C. R. 741
Houx, N. W. H. 1392
Hovi, T. 995, 2973
Howard, G. W. 2474
Howarth, F. G. 3
Howell, C. J. 253
Howell, L. L. 390
Howells, A. J. 2493
Howells, A. J. 2493
Howells, R. E. 345
Howlader, M. A. 1963
Hoy, J. B. 873
Hoy, M. A. 2266
Hsi, B. P. 2124
Hsieh, K. H. 670
Hsu, M. Y. K. 2735
Hsueh, T. F. 2329
Huang, W. D. 1103
Huang, W. D. 1103
Huang, W. D. 1103
Huang, Y. M. 1637
Huard, M. 2733
Huber, I. 665, 1823
Huchzermeyer, F. W. 1364
Hudson, A. 223
Hudson, D. B. 1703
Hue, B. 1514, 1515, 1840
Hueli, L. E. 1486, 1487
Huettel, M. D. 2276
Huffaker, C. B. 2414
Hughes, P. B. 596, 607, 609, 897, 1151, 2506, 2866
Hughes, R. D. 229
Huismans, H. 1241
Hulett, A. C. 675
Hulley, P. E. 225, 1357
Humphreys, S. J. 1180
Hunsinger, R. N. 702
Hunt, D. J. 3003
Hunter, D. M. 561, 587
Hunter, J. S., III 2200
Hunter, K. W., Jr. 2351
Hůrka, L. 1845
Hurley, R. L. 2850
Hurst, G. A. 925
Huston, J. E. 630
Hüther, G. 3011
Hutton, G. F. 3142
Huxsoll, D. L. 3217

Huynh, Q. K. 382 Hwang, Y. S. 97, 208, 209, 1855, 1856, 2791, 2875, 2876 Ibraheim, S. M. 697 Ibrahim, S. A. 1220 Ichimori, K. 2417, 2418 Ideker, J. 2857 Igarashi, A. 344, 1650, 1847, 2416
Igbokwe, E. C. 14, 119
Iglesias Rios, R. 1913
Iglisch, I. 456, 458, 464, 466, 471, 3068
Ignat'ev, V. I. 376
Ignatovich, V. F. 1748
Ignatowicz, S. 2019
Iguchi, M. 2064
Ikemoto, Y. 1319
Ikeuchi, M. 692
Iliev, A. 442
Ilyushkina, V. I. 1023
Imai, C. 1402, 1941
Imhof, J. E. 1361
Inaba, T. 2522
Inagaki, H. 2162
India, University of Inagaki, H. 2162
India, University of
Agricultural Sciences,
Hebbal, Bangalore 2017
Indian Council of Medical
Research 2038
Indira, A. 678
Indonesia, SEAMEO Regional
Center for Tropical Biology
726 Ineichen, H. 876 Ingenhuett, D. P. 591 Ingram, C. G. 2634 Institute for Medical Research, Institute for Medical Research
South Africa 996
Instituto Centroamericano de
Investigación y Tecnología
Industrial 2283
International Atomic Energy
Agency 22
International Centre of Insect Physiology and Ecology, Kenya 727 International Organization for Biological Control of Noxious Animals and
Plants, West Palearctic
Regional Section 2720
International Union of Pure and
Applied Chemistry 300, Applied Chemistry 690, 1460
Loffe, I. D. 1178
Irving, S. N. 1, 618, 619
Isaev, V. A. 2439
Ishay, J. 2540
Ishay, J. S. 632, 1170
Ishibashi, S. 118
Ishiida, M. 298
Ishii, A. 664
Ishii, S. 3223
Ismail, A. A. 270
Ismail, M. 3237
Ismail, M. T. 1659
Isola, E. L. D. de 2704 Isola, E. L. D. de 2704 Isser, D. K. 885 Itagaki, H. 2243 Itämies, J. 541, 1916, 2859, 2881
Itani, R. O. 1878
Itani, R. O. 1878
Itand, J. 2465, 2722
Itaya, N. 699
Ito, S. 3073
Ito, T. 165
Ivanitskii, V. V. 1038
Ivanov, Ch. P. 1738
Ivanov, L. N. 285, 2238
Iversen, J. O. 152, 795, 1089
Iversson, L. B. 125, 1102, 3056
Ivev. M. C. 2908, 3017 2881 Ivey, M. C. 2908, 3017 Iwasa, M. 3162 Iwuala, M. O. E. 384, 2045, 2046 Jackson, C. H. N. 129 Jacobs, S. E. 2484, 2485 Jacobs, T. P. 683 Jacobson, H. A. 925, 2282 Jacques, H. E. 2996

Jaenson, T. G. T. 1375, 1670, 2463, 2828 Jaffe, J. J. 17, 1051, 1571, 2419 Jagadish, S. 2617 Jagannath, M. S. 2898 Jagannath, M. S. 2898 Jagdish, S. 1183, 3198 Jakob, W. L. 828, 1290, 1555, 1631, 2086 Jaksch, W. 1448 Jalón, D. G. de 1499 Jamaludin, S. 508 James Cook University, James Cook University, Queensland 2132 James, E. R. 849 James, F. J. 1419 James, J. D. 1905 James, M. T. 2308 James, P. J. 3166 James, P. S. 2175 Jamback, H. 1830 Jan, C. 2780 Janabi, B. M. Al- 3211 Janardhan, A. 704 Jan, C. 2780
Janabi, B. M. Al- 3211
Janardhan, A. 704
Janbakhsh, B. 1289
Janes, N. F. 1464, 1807
Janion, S. M. 2713
Janitsch, A. 2542
Jankowska-Gan, E. 55
Jarisch, R. 2542
Jasmer Singh 48
Javadian, E. 837
Javed, S. 1920, 2097
Jayaram, V. 950
Jayasekera, N. 1636
Jeanne, R. L. 2303
Jeantet, A. Y. 1270
Jedlička, L. 3126
Jefferies, M. G. 638
Jeffrey, I. G. 2634
Jemmett, J. E. 1210
Jenni, L. 1933, 2152, 3087
Jennings, M. 2995
Jensen, F. 1931
Jessup, D. A. 2006
Jeter, M. H. 3079
Jeyagopal, C. P. 1919
Jie, B. G. 1545
Jiménez, J. 2706
Jiménez, J. E. 69 Jimenez Gonzalez, A. 1481 Jimenez, J. 2706 Jiménez, J. E. 69 Jirón, L. F. 2532 Johnson, C. A. 163 Johnson, B. K. 2592 Johnson, C. L. 1787, 2566, 2567 2567
Johnson, D. G. 683
Johnson, E. L. 2393
Johnson, F. J. 2590
Johnson, K. 990
Johnson, K. M. 2368
Johnson, L. 770
Johnson, W. E., Jr. 510
Johnston, K. W. 810
Joint Food and Agriculture
Organization/International
Atomic Energy Agency Atomic Energy Agency Division of Atomic Energy in Food and Agriculture Jones, J. C. 1824 Jones, J. R. 1011 3057 Jones, M. D. R. 169, 1045, Jones, N. Wynne- 2930
Jones, R. H. 1660, 2809
Jones, R. H. 1660, 2809
Jones, R. T. 634
Jong, Y. S. 291, 2661, 2662
Jonkman, J. C. M. 2202
Jordan, A. M. 2464
Jordan, B. 2402
Joseph, S. A. 3025
Joshi, G. C. 2384
Joshi, G. P. 1583, 3053
Joshi, V. N. 1805
Joslyn, D. J. 143, 1317
Joubert, J. P. J. 434
Joubert, L. 1340
Joyner, L. P. 2210
Judd, B. D. 808

Judson, C. L. 1628 Jullien, J. E. 3037 Jullien, J. L. 171, 1588, 1589, 1590, 1591 Jumali, S. 1294 Jumali, S. 1294 Jung, R. K. 1587 Jungreis, A. M. 997 Jupp, P. G. 351, 1575, 2710 Juranek, D. D. 1998 Jurd, L. 952, 1945 Justo, S. N. 324 Justo, S. N. 324 Kabachnik, M. I. 1461 Kabanova, V. M. 775, 1078 Kabasawa, Y. 664 Kabilov, T. 77 Kachekova, Sh. 2042, 2256, Kabilov, T. 77
Kachekova, Sh. 2042, 2256, 2675
Kaddu, J. B. 3132
Kadulski, S. 1529
Kadyrova, M. K. 1406, 3028
Kagan, I. G. 1278
Kaiser, C. 2510
Kaiser, K. L. E. 299
Kaiser, P. E. 1317, 2396
Kalenchuk, V. U. 437, 2899
Kalla, A. K. 2670
Kalpage, K. S. 1316
Kalra, N. L. 1627
Kaltwasser, P. 54
Kamala Bai, M. 1281, 1548
Kamalov, N. G. 3199
Kambou, F. 1079
Kamegamori, W. 592
Kamimura, K. 713
Kamoshita, K. 700
Kamyszek, F. 758, 2334
Kanchurin, A. Kh. 271, 1209
Kanda, T. 1899
Kaneko, K. 708, 1272
Kang, S. H. 2778
Kannan, P. 1532
Kano, R. 706, 710, 712, 717, 1950, 2488, 2852, 2869, 3143
Kantarev, I. 2635 1950, 2488, 2852, 2869, 3143
Kantarey, I. 2635
Kapanadze, E. I. 248
Kaplan, E. 2621
Kaplan, E. L. 2905
Kapoor, I. P. 1473
Kappos-Rigatou, I. 2895
Karandina, R. S. 2347
Karavaeva, T. M. 1808
Kardatzke, J. T. 524, 1601
Karlson, P. 3151
Karlson, P. 3151
Karlson, J. 1518
Karoji, Y. 3071
Karuppaswamy, S. A. 2028
Kashchenko, G. Z. 2605
Kashmeery, A. M. S. 1690
Kaston, B. J. 2998
Kathaperumal, V. 1532
Katsuda, Y. 2937
Kauffmann, E. E. 95
Kaufmann, W. R. 1977
Kaul, D. 393, 623, 1132, 1156
Kaul, H. N. 646, 1204, 2383
Kaul, S. M. 183
Kaur, P. 879, 3148
Kaveh, H. Spitalier- 2367
Kawmoto, F. 1736, 3008 3143 Kaur, P. 879, 3148
Kaveh, H. Spitalier- 2367
Kawamoto, F. 1736, 3008
Kay, A. B. 886
Kay, B. H. 507, 1291, 1323, 1903, 3083, 3084
Kaya, H. K. 386
Kazmierczuk, J. 1914, 1915
Kearney, P. C. 300, 690, 1460
Kearse, T. S. 1595
Keating, M. I. 3206, 3252, 3253
Keb. B. 1274 3253
Keh, B. 1274
Keil, C. B. 1825, 2061
Keirans, J. E. 245, 1431, 1768, 2577, 2622
Keith, R. D. 2399
Kelkar, V. V. 1655
Kelleher, J. S. 1263
Kelly, J. F. 178, 1334
Kemeny, D. M. 2534
Kemp, D. H. 1200, 1755, 2207, 3202
Kemp, R. L. 977 Kenaga, E. E. 954 Kendrick, R. Killick- 47, 441 Kennedy, J. M. 427, 1391, 2843 Kennedy, W. K. 1239 Kenny, J. 2625

Kerr, J. D. 1201 Kerschner, J. 1577 Kerzhner, I. M. 1706 Kesavan, P. C. 622, 875, 880, 1395, 1416, 1691, 1949, 2518, 2519 Kessel, U. 738 Kettle, D. S. 553, 3109 Kettle, P. R. 757, 1842 Keymer, A. E. 637 Khabirov, Z. 181 Khadarova, Z. M. 2106 Khaidarov, K. M. 246, 2605 Khalil, A. 2943, 2944, 2945 Khalil, G. M. 409, 1428, 1442, 1760, 1767, 2362 Khalil, H. M. 1438, 3190 Khalilulin, G. L. 516, 2111, 2386 2386 2386 Khan, A. Q. 336 Khan, H. 2325 Khan, M. A. 3082 Khan, M. H. 2333 Kharitonova, S. I. 2671 Kheir El-Sid, E. D. 3064 Khodary, A. S. El- 2887 Khodko, L. P. 2899 Khole, V. 585, 1133, 1415, 1715 1715 Khoury, C. 2613 Khristeva, A. G. 1558 Khromova, L. A. 2879 Khutoretskaya, N. V. 2963, Kieffer, M. 2345 – Kienou, J. P. 2826, 2832, 2837 Kiesow, I. 3171 Killick-Kendrick, R. 47, 441 Killick-Kendrick, R. 47, 441
Kim, A. A. 2626
Kim, J. K. 378
Kind, L. S. 2022
King, D. R. 522
King, R. E. 2714
King, T. P. 1423
Kinnear, J. F. 627, 1810
Kirkpatrick, R. L. 2282
Kirpichnikova, V. A. 233, 581
Kiselev, A. N. 1754
Kitaguchi, G. E. 2372
Kitaoka, S. 715, 719, 2906, 3104 3104 Kitzmiller, J. B. 806, 1913 Klassen, W. 1243, 1252, 1253, 1254 I254
Klausa, E. 2918
Kleef, J. van 2016, 2551
Klein, J. H., Jr. 2025
Klein, J. M. 2903
Kleinhans, D. 2198
Kleinjan, J. E. 519, 1906
Klemperer, H. G. 239
Kliemann, T. A. E. 1544
Klimenko, S. M. 2000, 2586, 2963, 3090
Kline, D. 2440
Klisenko, G. A. 1763
Kljajić, R. 3246
Kloter, K. O. 1557
Klowden, M. J. 132, 218, 362, 549, 1307 Klowden, M. J. 132, 218, 3
549, 1307
Kubo, T. Wilewska1516
Klunker, R. 7, 3171
Knapp, F. E. 1603
Knapp, F. W. 374, 1165,
1615, 1946, 2494
Knausenberger, W. I. 346
Knell, J. D. 178
Kniepert, F. W. 1409
Kniest, F. M. 413
Knight, K. L. 176
Knipling, E. F. 1246
Knox, D. W. 3218
Knudsen, A. B. 533
Knudsen, E. A. 3226

Knulle, W. 1979 Knüsli, E. 301 Knyazeva, N. I. 2055
Ko, K. K. 1650
Kobayashi, K. 2020
Kobayashi, T. 1773
Koburova, K. 1422
Koch, H. G. 1358, 1359
Koch, K. 367, 565, 1386
Koch, R. B. 1324, 2885
Kochansky, J. P. 1218, 1969
Kochoumian, L. 1423
Kock, D. 394
Koeman, J. H. 302
Koenig, E. Levy- 1345, 2047
Kok, D. J. 341, 2087
Kolabskiř, N. A. 2223 Knyazeva, N. I. 2055 Kok, D. J. 341, 2087 Kolabskii, N. A. 2223 Kolebinova, M. 2931 Kolonin, G. V. 650, 1434 Komano, T. 2421 Kondrashina, N. G. 1747, Nondrasmina, N. G. 1747, 2963, 3090
Kondratenko, V. F. 2902
Konečný, V. 297, 426
Konoplich, N. M. 1076
Konrad, T. G. 1249
Koolman, J. 3151
Kopper, E. 3182
Korenberg, E. I. 1750
Korinfskii, A. N. 1023
Korneva, N. V. 633
Korrevaev, B. A. 1038
Korotyaev, B. A. 1038
K 2963, 3090 995, 2973 Korvenkontio, P. 1581, 2104, 2759
Korzhov, V. M. 161
Koshenov, U. A. 1846
Koshenov, U. A. 1846
Koshela, H. 636, 2892
Koskela, H. 636, 2892
Koskela, P. 2881
Kostyukov, M. A. 1559
Kotlyar, V. I. 376
Koul, O. 2670
Kováč, Š. 426
Kovačičová, J. 297
Kováčik, J. 1792
Kovačovský, P. 2059
Kovalevskii, Yu. B. 1750
Koyumdzhieva, M. I. 1777, 1778 2759 1778
Kozlov, M. P. 502
Kozłowska, M. 705
Kożuch, O. 2119, 3089
Kraeńskaya, L. I. 639
Krafsur, E. S. 900, 2523
Kramer, E. 740
Kramer, J. P. 612, 1411
Kramer, M. 3218
Kramer, R. D. 28
Kramer, S. J. 1502
Kramer, W. L. 97, 2366, 2791
Krantz, G. W. 413
Krasnikova, L. B. 1027 Krantz, G. W. 413 Krasnikova, L. B. 1027 Krauter, P. C. 1166 Kravchenko, V. K. 332 Kremer, G. 2199 Kremer, M. 1659, 2810 Kretzschmar, K. 238 Kreutzer, R. D. 1599 Krieg, A. 468, 2355 Krieken, H. van 423 Krilis, S. 1454, 2914 Krilis, S. 1454, 2914 Krinsky, W. L. 1288, 1769 Kristensen, S. 1780, 2345 Kristensen, S. 1780, 2345 Krivolutskaya, G. O. 23 Krivoshieva, Z. V. 1738 Krizhanovskaya, E. A. 1209 Kroczyński, J. 2938 Kroon, C. C. M. 2792 Kropacheva, A. A. 2387 Kruizinga, B. 1131 Krüll, F. 1261 Kruminis-Łozowska, W. 55 1209 Kruseman, G. 1168 Krylov, D. G. 499 Krylova, T. V. 499 Krysteva, M. A. 1738 Kryzhanovskaya, E. A. 271

Krzemińska, A. 3181 Kuberski, T. 1904 Kubišta, V. 318 Kuberski, T. 1904
Kubišta, V. 318
Kudamatsu, A. 2488
Kudryashova, N. I. 288, 932
Küenzi, M. 2750
Kühlhorn, F. 2103
Kuhlow, F. 2370, 2371
Kuiper, J. W. 1686
Kuksgauzen, N. A. 2606
Kulsanin, V. L. 2110, 2526
Kulkarni, S. M. 646, 929, 930
Kul'kova, L. V. 3054
Kumada, N. 1736, 3008
Kumar, K. 3102
Kumar, R. 2989
Kumar, R. 2989
Kumar, T. P. 477
Kumari, K. V. 3239
Künast, C. 1126
Kunast, C. 1394
Künast, C. 2166, 2504, 3160, 3167
Kunitskaya, N. T. 767, 1022, Kunitskaya, N. T. 767, 1022. 1031 Kunitskii, V. N. 1022, 1023 Kunstman, J. L. 1947 Kunz, T. H. 1820 Kunze, K. 2211 Kupczak, I. 1231 1820 Küpper, B. Rehse-2572, 2573, 2971 Kurahashi, H. 1682, 1732, 1950, 2159 Kurdyukov, V. V. 529 Kureck, A. 1401 Kurenkov, V. B. 2215, 2608 Kurihara, M. 1417 Kurihara, T. 709, 819, 822, 2787 Kurkina, I. A. 248 Kurosa, K. 711 Kurstak, E. 2960, 2961 Kurtak, D. C. 189 Kuryuchkin, V. A. 2163 Kuryuchkin, V. A. 216 Kurz, J. 921 Kusiak, M. 1231 Kuttler, K. L. 1761 Kutuza, S. B. 2830 Kuusela, K. 541 Kuwahara, Y. 3223 Kuznetsov, V. D. 376 Kuznetsova, R. M. 24 La Casse, W. J. 2100 La Peña, M. C. de 242 La Salandra, M. 835 La Salandra, M. 835 Labetskaya, A. G. 639 LaBrecque, G. C. 219, 866, Labrecque, G. C. 219, 866, 1735

Labuda, M. 2119, 3089

Lacey, L. A. 190, 191, 847

LaChance, L. E. 2267

Lachinova, R. I. 121

Lackie, A. M. 1266, 2306

Lacowie, J. M. 1266

Lacowie, J. M. 1266

Lacowie, J. M. 1266

Lacowie, M. 338

Ladell, W. R. S. 1812

Lafaye, A. 200

Lähdevirta, J. 995

Lahkar, B. C. 48, 1436

Laing, R. O. 1809

Lainson, R. 42, 2447, 3112

Lakota, S. 1231

Lalitha, C. M. 1764

Lalko, J. 55

LaLonde, R. T. 522

Lalonde, R. T. 522

Lalonde, R. T. 5790

Laltoo, H. 2022

Lamatová, Z. 981, 1688

Lambert, D. M. 1901

Lambrecht, F. L. 533, 3043

Lamoral, B. H. 2933

Lan, X. H. 2342

Lanar, D. E. 2339

Lancaster, J. L., Jr. 2200, 2868, 2922

Lanciani, C. A. 1309, 2093

Lancien, J. 2413, 2466

Ländevirta, J. 2773

Landureau, J. C. 1271

Lane, J. 2764

Lane, R. S. 1711 1735

Lang, C. A. 1318 Lang, R. 862 Lange, J. 990 Lange, J. 990
Langford, R. P. 87
Langley, P. A. 574, 2149
Langton, P. H. 2187
Langvatn, R. 3174
Lanouette, J. G. 2456
Lanzrein, B. 746, 1525
Larget, I. 1475, 2253
Lari, F. A. 2450
Lasko, J. Fetter- 102, 1866
Lassam, N. J. 396
Latifi, M. 2932
Laudańska, B. Stejgwiłło- 1914
Launay, H. 2084
Launchbaugh, G. K. 1814
Laurence, B. R. 1654
Laurentin, M. F. 2739
Lautsin, A. M. 248
Laux, W. 309
Laveissière, C. 202, 570, 1119, 1120, 1380, 1383, 1935, 2832, 2833, 2837, 3128, 3129, 3130, 3131
Lavin, D. 1115
Lavin, D. R. 199
Lavoipierre, M. M. J. 1547 Langford, R. P. Lavoipierre, M. M. J. 1547 Lawrence, J. A. 2004, 2015 Lavoipierre, M. M. J. 1547
Lawrence, J. A. 2004, 2015
Lawson, D. L. 1812
Lawson, M. A. 1283
Lazell, M. 401, 1965
Le Berre, R. 1109, 2453
Le Bras, S. 2492
Le Fichoux, Y. 3210
Le Gonidec, G. 124, 2780
Le Mao, J. 2924
Le Pont, F. 360, 2413, 2812
Le Pont, R. 2449
Lea, A. O. 218, 362, 549, 1307
Leahy, M. G. 1293, 2580
Leake, C. J. 2592, 2976
Leake, L. D. 1504
Leal, J. A. 73
Leaney, A. J. 441
Lebedeva, N. N. 2609
Lech, B. 3228
Leclercq, M. 388, 391, 392
LeDuc, J. W. 826
Lee, B. 1154
Lee, D. J. 1093
Lee, D. K. 339
Lee, H. P. 1040
Lee, H. W. 994
Lee, I. S. T. 3169 Lee, H. P. 1040 Lee, H. W. 994 Lee, I. S. T. 3169 Lee, J. S. 2431 Lee, J. T. 3147 Lee, K. R. 2052 Lee, R. M. K. W. 187, 1944 Lee, T. S. 2445 Lee, V. H. 334, 857 Lee, W. M. 2521 Leegwater, wan der Linden M. Lee, W. M. 2521 Leegwater-van der Linden, M. E. 1117 Leeuw, G. de 1712 LeFurgey, A. 1441 Lenuw, G. de 1712
Leeuw, G. de 1712
LeFurgey, A. 1441
Léger, N. 2448
Léger, P. 2448
Léger, F. 210, 605, 1861
Lehman, P. G. 3164
Leighton, D. 1698
Leinati, L. 575
Leira, L. 2523
Leitch, B. L. 2221
Lekhavat, T. 2645
Lelikova, Z. F. 1023
Lemieux, M. 2921
Lemke, T. O. 1551
Lemma, A. 836
Lenahan, J. K. 2096
Leng, Y. C. 1103
Leng, Y. J. 1103
Lennep, M. van 1008
Lent, H. 1276
Lenz, M. Ebsen- 908 Lent, H. 1276 Lenz, M. Ebsen-908 León, D. de 2889 Leonova, G. N. 2586 Leonovich, S. A. 915, Leppla, N. C. 734 LeSage, L. 438 Leshchev, V. V. 2948 Lesser, F. 796, 2397 Lessof, M. H. 2534 915, 1185

Marquardt, W. C. 1660

Author Index Leung, M. E. 1597, 1598 Leung, M. K. 795, 1089 Levenbook, L. 597, 1159 Levi, M. I. 248 Levin, B. R. 2277 Levinson, H. Z. 470 Levot, G. W. 579 Levy-Koenig, E. 1345, 2047 Levy, R. 136, 141, 1171, 2360, 2406 Lewis, D. 2625 Lewis, D. J. 838, 1111, 1238, 1617 Lewis, D. J. 838, 1111, 1238, 1617
Lewis, L. F. 88
Lewis, R. A. 756
Li, A. S. 1846
Li, B. S. 1083, 2373
Li, G. Z. 1545
Li, J. L. 2485
Li, K. C. 1033, 2343
Liang, T. T. 1947
Liao, H. R. 2655
Licastro, S. de 1541, 2079
Lichtenstein, E. P. 1947, 2668
Lichtenstein, E. M. 1423, 2201
Liebisch, A. 861, 870, 920, 1753, 1770, 1771, 2012, 2239, 2571, 2594, 3187
Lien, J. C. 2735
Lillie, T. H. 1660
Lim, B. L. 3217
Lim, G. S. 399
Lin, Z. H. 2655
Linardi, P. M. 497, 771
Linden, M. E. Leegwater-van der 1117
Lindfeld, A. 2012
Lindsay, H. 990
Lindsey, W. 2293
Lineva, V. A. 1683, 2511, 2845
Linhares, A. X. 965
Linlev, J. R. 555, 1657 2845 Linhares, A. X. 965 Linley, J. R. 555, 1657 Liscia, A. 1157, 1158 Lissitzky, S. 2659 Liu, C. Y. 328, 1035 Liu, Q. 1036 Liu, T. Y. 1419 Liu, Y. Q. 1103 Livesey, J. L. 2152, 3087 Llera, J. L. Guillen 1493 Llewellyn, C. H. 2801 Llera, J. L. Guillen 1493 Llewellyn, C. H. 2801 Llewellyn, G. C. 1519, 2260 Lloyd, J. E. 2989 Lockhart, W. L. 3031 Loeff, D. 2066 Lofgren, C. S. 1969 Loiselle, R. 2245 Lok, Chan Kai 2755 Lok, J. B. 3078 Lokki, J. 1581, 2759 Lokki, M. L. 2104 Lokki, Yu. 2104 Lolivet, P. 2431 Lomnitzer, R. 1971 Lomnitzer, R. 1971 London School of Hygiene and Tropical Medicine 783, Tropical Medicine 783, 2265
Londt, J. G. H. 655
Loof, A. de 1743, 2173
Loomis, E. C. 208, 2928
Loon, J. van 1743, 2173
Lopes, H. de Souza 2890
Lopes, M. C. 263, 2967
Lopes, O. de Souza 1050
López-Correa, R. H. 1345, 1643 1643
Lopez Filho, A. 204
Lopukhov, P. A. 2675
Lorand, A. 1053
Lorard, A. 2780
Lorimer, N. 2271
Lounibos, L. P. 3058
Lourenço, W. R. 680
Lourens, J. H. M. 1179, 1999, 2597, 2897
Lowe, R. E. 1326, 1602, 1618, 2129, 2396
Lowenstine, L. J. 2024
Lowrie, R. C., Jr. 356, 1621
Lozano, A. Pérez 2920
Lozowska, W. Kruminis- 55 1643 Lozowska, W. Kruminis- 55

Lu, P. Y. 1211 Lubis, I. 2788 Lubis, I. 2788 Luby, J. P. 2409 Lucarelli, S. 2648 Lucas, R. E. 112 Luco, J. V. 486 Ludwig, P. D. 3060 Luedke, A. J. 2809 Luff, M. L. 582 Luh, P. L. 1083, 2373 Lukelenge Mapumba, K. 854 Lukies, J. M. 757 Lukoschus, F. S. 413, 945, 946, 1445, 2013, 2247, 3331 Lukoschus, F. S. 413, 945, 946, 1445, 2013, 2247, 3231 Lumaret, J. P. 1813, 2203 Lumiaho, I. 1916 Lumsden, W. H. R. 41, 1817, 1926, 2210 Lund, R. D. 1265 Lundquist, A. 600 Lundqvist, L. 1987 Lunin, S. V. 3097 Lunina, E. A. 498 Lunt, S. R. 2394, 2766 Luppi, A. 974 Lurie, A. A. 800 Lurik, B. B. 2669 Lusby, W. R. 593 Lüscher, M. 746 Lusk, E. E. 1872 Lussenhop, J. 2989 Lussenhop, J. 2989 Lustgraaf, B. van de 933 Lustgraaf, B. van den 2565 Lutfallah, A. F. 1039 Lüthy, P. 2750 Luty, S. Toś- 1430 Luz, E. 348 Luz, E. 348 Luzhetskaya, T. A. 242 L''vchiev, V. I. 2164 L'vov, D. K. 247, 1559, 2963, 3090 Lvov, D. K. 1747, 2000, 2586, 2963 2963 Lyons, E. T. 374, 2477, 3175 Lysenko, A. Ya. 774 Lysy, J. 1792 Ma, D. S. 1036, 1037 Ma, S. C. 986 Maas, W. 695 McCain, T. L. 805 MacCallum, F. 1804 McCaughan, C. I. 358 McClelland, G. A. H. 1881 McClelland, G. A. H. 1881, 1925 1925
McConnell, E. 2369
McCosker, P. J. 2549
McCoy, R. H. 2249
McCullagh, K. G. 371
McCullough, D. A. 1930
McDaniel, B. 2997
McDaniel, I. N. 1040
McDonald, A. E. 1562, 1563
McDonald, F. J. D. 606, 608, 1733 McDonald, P. T. 110, 111, 797, 1314, 1868
McDougall, K. W. 658, 1196
Macedo, V. 2075
McElligott, S. E. 2710
McEnroe, W. D. 258, 259, 260, 2560
Macfarlane D. Macfarlane, R. P. 2288 McGinnes, B. S. 2282 McGovern, T. P. 1365, 2808 McGowan, M. J. 20, 3205 McGowan, M. J. 20, 3205 McHardy, N. 2074 Machin, J. 997 Machin, M. V. 658 Machlitt, R. R. 2066 McIntosh, B. M. 1575 McIver, S. 3050 McIver, S. B. 1667, 2737, 3051 Mack, S. R. 1048, 1049, 1332 McKague, A. B. 1666 MacKay, P. R. 928 McKelvey, J. J., Jr. 2266 MacKenzie-Graham, L. L. 106 McKenzie, J. A. 2883 Mackenzie, S. L. 2838 MacKercher, D. G. 1437

McKinnerney, M. 452
McLean, D. M. 808, 2962
Maclean, G. J. 2479
McLintock, J. 152
McLintock, J. J. R. 795
McLintock, J. J. R. 1089
McMullen, H. L. 1978
McNeill, J. C., IV 1570, 3060
McNew, R. W. 2907, 3205
McVey, D. L. 802
Madalengoitia. J. 1351 McKinnerney, M. 452 Madalengoitia, J. 1351 Madalińska, M. 3228 Madder, D. J. 3031 Maddrell, S. H. P. 763, 2068, 2.700 2700
Madhava Reddy, M. 2631
Madrigal, R. V. 1603
Maeda, S. 1902
Maelzer, D. A. 2312
Maes, F. W. 1728
Maffi, M. 2090
Magadza, C. H. D. 1374
Magayuka, S. A. 550
Magazanik, L. G. 1173
Magnarelli, L. A. 251, 380, 387, 1574, 1826, 2530
Magy, H. I. 2872
Mahadev, P. V. M. 929
Mahmood, F. 336, 804, 811, 1920, 2121, 2754, 3062
Mahoney, D. F. 924
Maia, L. Freire- 290
Maibach, H. I. 2946
Maier, W. A. 440
Mailhot, Y. 512
Main, A. J. 1896, 1897, 1898, 2304
Mair, K. H. 3157 Madhava Reddy, M. 2631 2304
Mair, K. H. 3157
Maire, A. 512, 780
Maistre, M. 2446
Majewski, T. 616
Majori, G. 175
Majumder, S. K. 3247
Makarova, G. Ya. 23
Makhno, P. M. 1808
Makino, S. 243, 2193
Makki, H. Nassif- 440
Malacrida, A. 2495 3247 2388 Makki, H. Nassif- 440 Malacrida, A. 2495 Maldonado, R. Ruiz- 546 Malek, A. A. Abdel- 526 Malik, G. M. 1091 Malik, J. K. 3249 Malinowski, H. 2938 Mal'kov, V. A. 1135 Mal'kov, V. A. 1135 Mallipudi, N. M. 904 Malkov, V. M. Malipudi, N. M. 904
Malin, E. 2262
Malmqvist, B. 1664
Malonga, J. R. 1116, 2836
Malushev, V. I. 2911
Malz, D. 1833
Mamaev, N. Kh. 1123
Mamet, J. R. 2436
Manaeckjee, A. 1130
Mandell, G. L. 2279
Mandelshtam, J. E. 319
Mango, C. K. A. 1984
Mani, K. R. 3025
Mańkowska, H. 3181
Manly, B. F. J. 1313
Manning, D. L. 3035
Manno, A. 1386 Manning, D. L. 3 Manno, A. 1386 Manschot, W. A. 2936 Manschot, W. A. 25 Mansingh, A. 660, 25 Mant, M. J. 2437 Mao, J. le 2924 Mapumba, K. L. 85 Marcel, A. E. 2657 Marchenkov, F. S. 660, 2598 161 Marchi, A. 818 Marcus, C. 2668 Marcus, P. 289 Marechal, L. R. 489, 491 Maretic, Z. 1221 Marjolet, M. 2901 Markham, R. J. F. 2 Markina, V. V. 1225 Markl, H. 2855 2652 Markovetz, A. J. 2057 Markovich, N. Ya. 17: Marks, E. N. 3084 Marks, E. P. 2299

Marques, R. A. 1790 Marquez, F. Morillas 1485 Marranghello, L. 2208 Marrott, L. 1302 Marsden, P. D. 2075, 2080, 2154, 2338 Marshall, J. 887 Marshall, K. E. 2894 Martin, M. D. 627, 1810 Martin, M. S. 2779 Martin Mateo, M. P. 448 Martin Mateo, M. P. 448, 1481

Martín Pascual, A. 269

Martin, R. R. 3147

Martin, S. J. S. 2490

Martin, W. E. 2929

Martindale, C. 3240

Marty, J. P. 1420

Marty, P. 3210

Marumo, S. 1228, 2049

Maryon, M. E. 443

Mas-Coma, S. 312

Masalkina, T. M. 120

Maser, C. 2232

Maslenikova, Z. P. 1024

Masner, P. 1002

Masser, C. 2232

Masslenikova, Z. P. 1846

Massoud, J. 224

Mastebroek, H. A. K. 1686

Mastropaolo, W. 1318

Mastryukova, T. A. 1461

Matecki, W. 959

Mateo, M. P. M. 448, 1481

Mateus V., G. 2685

Mathavan, S. 1919

Mathew, K. 453, 454

Mathur, A. C. 2864

Mathur, K. K. 183

Matile, H. 412

Matile, L. 2690

Matoušková, O. 1688

Matsumoto, K. 2020, 3223

Matsumoto, K. 2020, 3223

Matsumoto, K. 2020, 3223

Matsumura, T. 2486, 2487, 2871 1481 Matsumura, T. 2486, 2487, 2871 2871
Matsunaka, S. 692
Matsuo, K. 2823
Matsushima, T. 2096
Matthews, G. A. 1811
Matthiesen, F. Aranha 9
Matyushina, O. A. 1434
Matz, G. 1510, 1511
Matzke, G. 3134
Manng Maung Tun 2714 Matzke, G. 3134
Maung Maung Tun 2714
Maupin, G. O. 2615
Mauritius, Ministry of
Agriculture and Natural
Resources and the
Environment 626
Mauro, A. 1802, 2251
May, R. M. 311
Mayer, H. W. 1939
Mayer, M. S. 1905
Mayer, R. T. 398, 872, 1649,
1714 1714 1714
Maynard, M. 427
Maynard, R. 1040
Mayoux, A. 2408
Mayr, M. de ArrudaMazzini, M. 759
Mazzola, V. 2415 Means, R. G. 2800 Mebrahtu, Y. 172 Means, R. G. 2800 Mebrahtu, Y. 172 Mebs, D. 2250 Medina, M. Sanchez- 3225 Medvedevskii, V. I. 1023 Meegan, J. M. 1349, 2361, 2362, 3064 Meek, C. L. 1094 Meerman, A. 2239 Meermann, A. 1770 Megaw, M. J. W. 926 Megaw, M. W. J. 1765 Mehl, R. 249, 538, 2205 Mehlhorn, G. 2036 Mehlhorn, G. 2036 Mehlhorn, H. 255, 1016, 1432, 2627 2.62.7 Mehrotra, P. 1010 Meisch, M. V. 303 Meiser, W. 296 Meiswinkel, R. 161 Mekuria, Y. 172

Nassif-Makki, H. 440

Mela, G. S. 2234 Meleguir, F. 643 Meleney, W. P. 414, 1452, Melgar, F. 2079 Melgar, F. 2079
Mello, D. A. 205, 2085
Mello Ferreira, M. J. de 2856
Mello, J. A. N. de 1279
Mello, M. L. S. 1538, 1844
Mello, R. P. 490, 760, 962
Mello, P. S. 359, 2995
Melo, H. J. H. de 2676
Melo, J. R. Cunha-290
Melo Melo, J. R. Cunha- 290
Melo, J. R. Cunha- 290
Melville, A. R. 2458
Méndez, E. 1551
Méndez, L. Cuadrado- 1483
Mendis, K. N. 1592
Mendivil, J. A. 2851
Menesis, O. 1351
Ménghi, A. M. Borsetto- 2648
Menke, A. S. 1567
Menon, K. V. 542
Menon, P. K. B. 2777
Meola, S. M. 872, 1756
Merdan, A. I. 2517
Meredith, S. E. O. 858
Mermod, C. 918, 1435
Merrell, R. 1300
Merritt, R. W. 78, 188, 1812, 2300 2300
Mery, A. 777
Mesquita, J. F. 75
Mesner, M. 1394, 2166, 2504
Metcalf, H. E. 2809
Metcalf, R. L. 956, 1473, 2324
Metha, N. R. 1655
Metz, J. F., Jr. 1239
Metzger, R. 52, 2060
Meunier, N. 2245
Mews, A. R. 371
Meyer, R. E. 2441
Meyer, R. P. 93, 1852, 3092
Meyer, R. W. 1259
Mezenev, N. P. 601
Mezzanotte, R. 818, 2094
Mhiddin, H. K. 843
Michaeli, D. 558
Michalik, D. 55
Michel, F. B. 1420
Miegeville, M. 2901
Mielke, U. 1832
Mikhaïlova, P. V. 598
Mikhnovskaya, N. D. 3098
Mikiver, M. 2262
Milani, R. 2495, 2724, 2725, 2726
Milby, M. M. 92, 95, 110. 2300 Mery, A. 2726 Milby, M. M. 92, 95, 110, 1314, 1353, 1850, 1876, 1880, 3093 1880, 3093 Miles, M. A. 43, 2078 Miles, P. W. 2312 Miles, S. J. 1632 Miller, B. R. 833, 1072, 1647 Miller, J. A. 591, 1165, 1407 Miller, R. W. 593, 1165 Miller, S. 1325 Miller, T. 1391, 2844 Miller, T. A. 427, 584, 2258, 2843 Miller, T. A. 427, 584, 2258 2843
Miller, T. W., Jr. 136, 141, 2360, 2406
Mills, R. R. 1519, 2260
Mills, T. A. E. Platts-937
Miloushev, I. 3156
Minamite, Y. 2937
Minář, J. 863, 981, 1688
Mingo, T. M. 1552
Ministry of Agriculture and Ministry of Agriculture and Natural Resources and the Environment, Mauritius 626
Minne, J. A. 434
Minshall, G. W. 1930
Miocque, M. 743
Miranpuri, G. S. 48, 1436
Mirenda, J. T. 1172
Miroshnikov, A. I. 1173, 2197
Miščević, Z. 444
Mishaeva, N. P. 437
Mishra, A. C. 929, 1204
Mishra, G. 2614

Mishra, R. K. 868 Mishra, R. K. 868 Mishra, S. 1717 Misinya, M. M. 1112 Misra, S. K. 2008 Mitchell, C. J. 1577, 2047, 2086, 2423 Mitchell, F. 927 Mitchell, F. 927
Mitchell, R. M. 1500
Mitrokhin, V. U. 560
Mittal, O. P. 179, 514
Mittler, T. E. 2297
Miura, K. 382, 906
Miura, T. 88, 91, 98, 99, 1862, 1918 1918 Miyachi, S. 2534 Miyagi, I. 713, 821, 3096 Miyamoto, M. M. 2496 Miyazaki, A. 1228, 2049 Miyoshi, K. 2010 Mizusawa, K. 2100 Modrzejewska, M. 1528 Mogi, M. 168, 2433, 2531, 3163 Mogi, M. 168, 2433, 2531, 3163
Mohamed, U. V. K. 2340
Mohammad, A. M. S. 127
Mohiuddin, S. 3061
Moisse, E. 94
Mokrousov, N. Ya. 1031
Mokry, J. E. 2825, 3122
Mola, G. C. 975
Molinier, M. 2413, 2466
Molloy, D. 2819
Moloo, S. K. 2830, 3086
Molouba, R. 842, 2836
Molyneux, D. H. 199, 441, 2151, 2152, 3087
Monath, T. P. 1065, 1577
Mońko. A. Draber- 2473
Monteith, J. L. 2982
Montesinos, H. J. 495
Monzu, N. 1138
Moon, R. D. 386
Moore, B. 2702, 3165
Moore, D. F. 1356
Moore, D. F. 1356
Moore, W. R. 331
Morchouse, D. E. 588, 845
Moraes, M. A. P. 856
Moraes, C. 2667
Moreka, L. 1984
Moren, D. M. 1643
Moretti, F. 481
Morgan, B. B. 685
Morgan, C. R. 1521 3163 Morgan, B. B. 685 Morgan, C. R. 1521 Morgan, D. W. T. 2 2848, 2849 Morgan, D. W. T. 2848, 3 Morgan, J., Jr. 952 Morgan, N. O. 1066 Morgan, P. B. 866, 1735 Morgan, P. N. 685, 3234 Morgan, R. W. 954 Morgans, D. 2660 Morganti, L. 974 Morillas Marquez, F. 148 Morganti, L. 974
Morillas Marquez, F. 1485
Morini, E. G. 2657
Morisita, M. 3071
Moritz, M. 1775
Morley, W. N. 59
Morozov, Yu. A. 2348
Morris, C. D. 522, 1831, 2790
Morris Owen, R. M. 2543
Morris, R. F. 1014
Morrison, P. E. 3145
Morrison, P. E. 3145
Morrison, R. D. 1978
Morrondo, J. A. NájeraMortenson, E. W. 164
Morvan, D. 1075
Moseley, K. 1631
Moseley, K. 1631
Moseley, K. A. 1286
Mosha, F. W. 550
Mosinger, J. L. 742
Moss, W. W. 3035
Motabar, M. 1289
Mott, K. E. 2077, 2078
Motte, P. 3210
Mouchet, J. 2782
Mouga, D. M. D. da Silva 964
Mount, G. A. 1501
Moussa, M. A. 1283, 2741, 2742 1485 2742

Moussiegt, O. 1625 Moya Borja, G. E. 2684, 2687 Mufti, N. Al- 2472 Mühle, T. 1002 Muhsam, B. Feldman- 2562 Muijser, H. 1726 Muirhead-Thomson, R. C. Muirhead-Thomson, R. C.
1114

Mukesh, D. 2536

Mulla, M. S. 97, 115, 116,
117, 175, 191, 208, 209, 847,
889, 1855, 1856, 1871, 2366,
2491, 2744, 2791, 2875,
2876, 2877, 3066, 3225

Mullen, G. R. 3085

Mullenix, J. 1631

Mullens, B. A. 2182

Muller, C. A. 2336

Müller, J. 649

Muller, M. J. 1661

Müller, P. 3154

Muller, R. 830, 858, 1803,
1817, 1926, 2210

Müller, U. 3184, 3185

Mulligan, F. S., III 98, 1611

Mullins, D. E. 2061

Mullyarskaya, L. V. 1783

Mumby, S. M. 1393

Mumcuoglu, Y. 1205, 1451,
2568 1114 2568 2568 Mumford, R. M. 1800 Muminov, M. S. 2106 Mundall, E. C. 2323 Muñíz Daza, M. 2673 Munro, H. M. C. 2915 Munro, R. 1262, 2915 Munroe, W. L. 509 Munstermann, L. E. 545, 2410 2805 Munstermann, L. E. 2410, 2805 Murad, H. 2340 Muramatsu, S. 430 Murillo, J. 1099 Murray, M. D. 893 Murray, W. D. 2873 Murray, W. D. 2873
Murzakhmetova, K. 765
Mustapha, A. 2465
Mustapha, M. J. 2814, 3132
Muylle, E. 2476
Muzyleva, I. L. 271, 1209
Myasinkov, Yu. A. 1198
Myers, P. 1088
Myskin, A. A. 2902
Nachtigall, W. 611
Nadchatram, M. 2231, 258.
Nader, I. A. 394
Nadim, A. 837, 2134
Nagamine, L. R. 1877
Nagar, S. K. 1203 2231, 2581 Nadim, A. 837, 2134
Nagamine, L. R. 1877
Nagar, S. K. 1203
Nagy, B. A. L. 2305
Naidu, B. Padmanabha 950
Naidu, N. V. 704
Naidu, R. C. M. 678
Naik, S. V. 264
Nair, S. S. 671
Na'sa, B. K. 1386
Nájera-Morrondo, J. A. 1350
Nakada, Y. 430, 431
Nakagawa, M. 298
Nakajima, M. 700, 1043
Nakamura, H. 2091, 3073
Nakamura, T. 298
Nakao, H. K. 2501
Nakata, K. 2009
Nakayama, I. 1465
Nalim, S. 1084, 1294, 1644, 2425
Nam, E. A. 773 Nam, E. A. 773 Nambiar, R. 2096 Namihira, G. 2522 Nanda, D. K. 321 Nandakumar, N. V. Nandakumar, N. V. 3247 Nandy, S. C. 1206 Nantel, J. 2245 Nantulya, V. M. 1933 Naqvi, S. N. H. 127 Narahashi, T. 476 Narang, N. 513, 1913 Narang, S. 513, 1913 Narasimham, A. U. 1268, 1836 1836 Narlock, S. A. 799 Nash, R. 902 Nasr, A. E. Aboul- 79

Nassif-Makki, H. 440 Nathan, M. B. 505 Natori, S. 2169 Naumov, A. N. 1400 Naumov, R. L. 2607, 2910 Nawab Singh 3101 Nayar, J. K. 12, 337, 3049 Nayil, A. K. 837 Nayli, A. K. 857 Nazmi, N. H. 2156 N'Dri, G. A. 2664 Neal, R. A. 2074 Nechaeva, L. K. 2082 Needham, G. R. 1757, 1978, Neednam, G. R. 1757, 1978, 1981 Neitz, A. W. H. 253 Nelson, B. C. 2352 Nelson, F. R. S. 1054 Nelson, G. S. 505, 2133, 2265 Nelson, M. J. 1539, 1540 Nelson, R. L. 92, 1314, 1876, 3093 3093
Nelson, W. A. 1534
Nemenyi, P. B. 523
Neronov, V. M. 1025
Neste, D. Van 677
Nettles, V. F. 674
Nevill, E. M. 617, 2811, 3105
New South Wales, Biological
and Chemical Research Institute 895
New York State College of Agriculture and Life
Sciences 1239
Newberry, K. 372
Newell, G. B. 1678
Newhouse, V. F. 1758, 2703
Newlands, G. 679, 3240
Newson, H. D. 160, 799, 1335, 1594
Newson, R. M. 1985, 1988
Newton, J. R. L. 1953
Newton, S. E. 2088
Ngoka, J. M. 2814
Nickle, E. A. 3018
Nickle, W. R. 1047, 1891
Nicolas-Randegger, J. 2664
Nicolescu, G. Cristodorescu-Agriculture and Life Nicolescu, G. Cristodorescu1322
Nie, I. E. 415
Niesiołowski, S. 844
Niiyama, M. 2651
Nijhout, H. F. 2125
Nikitina, A. D. Petrova271
Nikkels, A. H. 423
Niklasson, B. 1349
Nikolaeva, N. V. 778
Nikulina, N. A. 667, 2083
Nikul'shin, S. V. 2346, 2347
Nilsson, L. M. 1664
Nishino, C. 1269
Nishioka, T. 700
Nissar Ahmed, M. 2631
Nitschmann, J. 54, 1737
Niv, A. Yahel1222
Niwa, M. 2064
Nijazova, M. V. 248
Njio, K. D. 997
Noda, S. 852 Nicolescu, G. Cristodorescu-Njio, K. D. 997 Noda, S. 852 Nogge, G. 1671 Noirtin, C. 1929 Nolan, J. 1199, 2545, 2550 Nolan, R. A. 1653 Nolasco, C. 1348 Nomel, P. E. 2664 Nordin, J. H. 2170, 2171 Norman, J. O. 865 Normatov, Kh. A. 1406 Norment, B. R. 291, 684, 951, 1573, 2623, 2661, 2662, 3232 3232 3232
Norris, D. M. 2326
Norris, K. R. 2296
Norton, G. A. 1752, 2311
Norton, R. A. 276
Norval, R. A. I. 654, 1182, 1994, 2004, 2015, 2624
Nosec, I. 1242
Nosec, I. 1242
Nosek, J. 1439, 2119, 2953
Nourrit, J. 1533
Noushin, M. K. 837
Novák, D. 2120
Novák, F. 318

Novak, F. J. 1834 Nováková, O. 318 Novikov, Yu. M. 775, 1078 Novokhatski, A. S. 2963 Novokhatskii, A. S. 2963 Novokhatskii, A. S. 2963 Nowakowski, L. H. 940, 1789 Nozais, J. P. 2664 Numata, T. 2633 Nunes de Mello, J. A. 1279 Núñez, J. L. 283 Nussbaum, M. 2621 Núnez, J. L. 283
Nussbaum, M. 2621
Nussenzweig, R. S. 528
Nutting, W. B. 277
Oba, M. S. P. 204
Obasi, O. E. 659
Obenchain, F. D. 2548
Obradović, M. 2217
O'Brien, R. D. 390, 691
Ochieng, P. 2443
Ochoe A., J. O. 2823
Ocio, E. 3173
O'Connor, B. M. 2024
Oda, T. 2370, 2434, 2906
O'Dell, G. V. 3205
O'Doherty, G. O. P. 3245
Odom, R. B. 2222
O'Donnell, I. J. 2882
O'Flynn, M. A. 588
Oganesyan, V. V. 1546
Ogata, M. 2243
Ogedegbe, E. M. 647
Ogunba, E. O. 1554
Oh, S. K. 1975
Ohba, M. 1296
Ohbayashi, M. 2651
Ohgami, H. 2937
Ohno, I. 699, 700
Ohno, N. 1465
Ohno, S. 430, 431
Ohsawa, K. 953
Ohtaki, T. 615, 1682
Okada, K. 118
O'Keefe, D. F. 1469
Oker-Blom, N. 995, 2973
Okhotina, M. V. 2040
Okorie, T. G. 2596, 3045, 3046
Okoth, J. O. 3133 3046 3046
Okoth, J. O. 3133
Okpala, I. 2045, 2046
Okudaira, H. 298
Okulov, V. P. 2813
Olafsson, E. 2537
Oldroyd, H. 3029
Olejnicek, J. 2561
Oliveira, C. M. B. de 2686
Oliveira Filho, A. M. de 2336, 2337 2337
Oliveira, G. P. 2230
Oliver, G. V., Jr. 1530
Oliver, J. H., Jr. 2002, 2226
Oliver, L. M. 220
Olsen, D. E. 669
Olson, J. G. 2919
Olson, J. K. 1094, 1570, 1649, 1889, 2390
Olsuf'ev, N. G. 2514
Olsufjev, N. G. 2514
Omar, M. S. 846
Omarov, Sh. M. 633
Omarova, M. V. 1123
O'Meara, G. F. 1095, 2766
Omer, S. M. 1905
Omwoyo, P. L. 2221
Onaka, M. 1043 Omer, S. M. 1905 Omwoyo, P. L. 2221 Onaka, M. 1043 Ono, H. 851 Ono, Z. E. 718 Ononogbu, I. C. 1425 Onori, E. 3099 Onwubiko, A. O. 533, 3043 Onyiah, J. A. 3107 Oormazdi, H. 3015 Oppenheimer, J. R. 2192 Oppenoorth, F. J. 1392 Ordonez, J. V. 1646 Ori, M. 721 Orichova, M. 2227 Orihel, T. C. 356 Orlov, B. N. 633 Ormerod, W. E. 2153, 2829 O'Rourke, F. J. 2292 Ortíz, I. 185 Ortiz, J. 94 Ortiz, J. T. R. I. 186 Ortiz, J. T. R. I. 186

Ortonne, J. P. 3213 Osborne, M. P. 1, 618, 619, 1163 Osburn, R. L. 2002 Osburn, R. L. 2002 Oshima, S. 2636 Osipova, S. P. 498 Osman, O. M. 2007, 2227 Ossi, G. T. 2757 Ostlind, D. A. 18, 862 Ota, K. 1393 Otero, M. A. 70 Otieno, L. H. 1387 Otto, D. 882 Otto, D. 882
Oudemans, A. C. 666
Ouedraogo, C. 1080
Owen, R. M. M. 2543
Oyaert, W. 2476
Pacey, C. 1569
Pacheco, N. D. 927, 2369
Padmanatha Naidu, B. 95 Padmanatha Naidu, B. 950 Page, K. W. 283
Page, S. N. 1218
Pajni, H. R. 879
Pajot, F. X. 360, 2449, 2732, 2812 Pal, R. 1066 Pal, V. 179 Pal, V. 179
Palenfo, B. 203
Palička, P. 1444
Palka, J. 997
Palmer, D. 2729
Palmer, J. S. 3017
Pamphile, M. 1345
Pan, C. F. 82
Panbangred, W. 536
Panchenko, G. M. 2082
Panciera, R. J. 402
Panday, R. S. 544
Pandey, A. 2053
Pandian, T. J. 1919
Pandya, A. P. 1655, 2816
Panicker, K. N. 1297, 1912, 2773 2773 2//3 Pankhurst, R. J. 436 Panon, G. 2438 Pansu, M. 2465 Pant, C. 1059 Pant, C. P. 1584, 1585, 2403, 3057 Pant, C. P. 1584, 1585, 2403
3057
Pantuwatana, S. 536
Papazotos, V. 3138
Papoport, L. D. 1026
Paraluppi, N. D. 1572
Parc, F. 2381
Pardal, J. F. 1801
Park, J. S. 378
Parker, B. M. 815
Parker, G. 1155
Parker, G. H. 1837
Parker, G. H. 1837
Parker, J. D. 4
Parker, K. R. 1934, 2437
Parker, C. S. 1389
Parker, R. J. 2601
Parkin, R. 1196
Parsons, R. E. 2401
Parveen, R. 3061
Parveen, T. 336, 804, 2121, 3062
Pas, L. J. T., van der 1392 Pas, L. J. T., van der 1392 Pascal, D. D., Jr. 1800 Pascal, D. D., Jr. 1800
Pascual, A. Martín 269
Pascual, E. 1484
Pasteur, N. 777, 2115
Patarroyo, J. H. 2616
Paterson, H. E. 1632
Patil, K. S. B. 1908
Patil, T. N. 1324, 2885
Patil, V. L. 583, 628, 1162
Patrizzi, R. 3184, 3185
Patterson, J. W. 72, 76, 3201
Patterson, R. S. 219, 1735, 1893 1893 Pattyn, S. R. 988 Pau, R. 1159 Paul, B. S. 1229, 3249 Paula, M. C. Henriques Gontijo de 966
Pauli, G. 1443
Paull, B. R. 634
Paulov, Š. 338
Paulovová, J. 338

Pawlik, K. 1516 Payne, I. 1379 Pawlik, K. 1516
Payne, I. 1379
Pchelkina, A. A. 2606, 2911
Peake, P. W. 1413, 1699
Pearson, J. E. 2047
Pechuman, L. L. 395, 1161
Pedersen, T. G. 3226
Pedgley, D. E. 2444
Pegel, M. 2146
Pelhate, M. 1514, 1515, 1840
Pelsue, F. W. 1859
Pelt-Verkuil, E. van 1712, 1721, 1961, 2176, 2509
Peña, M. C. de la 2422
Penaud, A. 1533
Pence, D. B. 1814, 2264
Penttinen, K. 995, 2973
Penzlin, H. 3011
Pereira, L. E. 1050
Pereladov, S. V. 1038
Pérez, A. Arrieta 262
Pérez, A. Arrieta 262
Pérez, A. Morales 213
Pérez, F. Albala 1495
Pérez Lozano, A. 2920
Pérez-Reyes, R. 2081
Perez, T. O. 1990
Perić, I. 3246
Perié, N. M. 651
Périères, J. 2115
Perkins, J. M. 3168
Perna, B. 1170
Perrière, F. Goudey- 743
Perry, D. A. 896 Perrote, F. Goudey- 743 Perrot, H. 3213 Perry, D. A. 896 Persoons, C. J. 34, 1522 Perveen, A. 1920 Pesson, B. 2448 Pesson, P. 305 Pest and Weed Control Association of Victoria 449 Pestryakova, T. S. 2528 Peter, O. 412, 2206 Peters, W. 1016, 1328 Petersen, G. W. 936 Petersen, J. 521 Petersen, J. J. 141, 1305, 1626, 1900, 2407 Peterson, E. L. 1045 Petit, G. 2367 Petrarca, V. 2101 Petrich, J. 1770 Petrova, B. K. 26 Petrova, B. K. 26
Petrova-Nikitina, A. D. 271
Petryszak, A. 322
Pettersson, R. F. 2975
Peyton, E. L. 1636
Pfeiffer, G. 882
Pfister, K. 1776
Pfunter, A. R. 114
Pfuntner, A. R. 2797
Philip, C. 2888
Philip, C. B. 228
Philip, G. 531
Philip, R. N. 2206
Philippon, B. 2453
Philip, R. N. 276, 1991
Piazak, N. 2903
Picard, L. 780
Pichon, G. 355, 1097, 2746, 2783, 2784, 2785, 2786
Pick, B. 2520
Pick, C. R. 415
Picollo, M. 1541
Picton, J. 2175
Piek, T. 997
Pienkowski, R. L. 905 Petrova-Nikitina, A. D. 271 Piek, T. 997
Pienkowski, R. L. 905
Pierce, P. A. 337
Piesman, J. 1998, 2003, 2575
Pietra, P. 1157, 1158
Pifano C., F. 185, 186
Pillai, J. S. 785, 2357
Pillai, K. R. S. 2898
Pillai, M. K. K. 132
Pilz R. 882 Fillat, M. K. K. 132 Pilz, R. 882 Pimentel, D. 2263 Pimpinelli, S. 2358 Pimprikar, G. D. 903, 1573 Pinchin, R. 2336, 2337 Pineda, E. 1348 Piñero, D. Feliciangeli de 71, Pinger, R. R. 856, 1373 Pinhão, R. C. 1795

Pinithpongse, S. 2799
Pinnock, D. E. 1864, 2312
Pinto Dias, J. C. 2707
Piotrowski, F. 2691
Piotrowski, F. 2326
Pipa, R. 747
Pipa, R. L. 1834
Pires, C. A. 1639, 1640, 2089
Pisarski, B. 234
Pitts, C. W. 1165
Pitzolis, G. 359
Pizzolato Oha M. S. 204 Pizolis, G. 359 Pizolato Oba, M. S. 204 Plapp, F. W. 1324, 2885 Plapp, F. W., Jr. 425 Plate, H. P. 461 Platts-Mills, T. A. E. 937 Platzer, E. G. 104, 105, 106, 1865 Pleshkova, G. N. 1078 Pletnev, V. D. 285 Pletsch, D. J. 2400 Podboronov, V. M. 1748, 2606, 2610 2606, 2610
Podgórski, W. 616
Podufal, C. HintzePoggio, T. 2525
Poinar, G. O., Jr. 850, 851,
1108, 1117, 1367, 1370,
1900, 2031, 2822
Polderman, A. M. 2936
Poleshchuk, V. D. 286
Politzar, H. 200, 565, 1121,
2835, 3137
Polyakov, D. K. 246, 2220 Polyakov, D. K. 246, 2220, 2593, 2605 2593, 2605 Polyakov, V. A. 1676 Polyakova, A. A. 1676 Polyakova, V. K. 3177 Pomeroy, B. S. 306 Ponce, C. 1099 Polyakova, V. R. 3177
Pomeroy, B. S. 306
Ponce, C. 1099
Ponirovskiĭ, E. N. 556
Pons, I. 1058, 1060
Pont, A. C. 1237, 2184, 3029
Pont, F. le 360, 2413, 2812
Pont, R. le 2449
Poorbaugh, J. H. 207
Popham, E. J. 1115
Pople, M. 604
Popov, P. V. 3176
Popov, V. F. 247
Popov, V. L. 1748
Porcheron, P. 1275, 1692
Port, G. R. 135, 2738
Porter, C. H. 809
Porter, R. E. R. 1396
Portus, M. 274
Portús, M. 1478
Posey, K. 1365
Possani, L. D. 681, 3238
Potapov, A. A. 2671
Potgieter, D. J. J. 253
Pott, J. M. 416
Potter, H. W. 834
Pound, J. M. 2226
Povolny, D. 907
Powell, J. R. 545, 2805
Powell, J. R. 545, 2805
Powell, P. K. 1827
Pozio, E. 2142
Pradhan, G. D. 530, 532, 3053
Pramanik, H. 320
Prasad, R. S. 1281, 1285, Pramanik, H. 320 Prasad, R. S. 1281, 1285, 1548, 3027 Pratt, G. E. 2 Pratt, G. E. 2 Prawirodisastro, M. 1734 Presidente, P. J. 2860 Presser, S. B. 1852, 2970 Price, G. D. 1292 Price, J. F. 422 Price, J. O. 1954 Price, M. A. 1756 Price, R. D. 58, 754, 1841, 2065 2065 Pridantzeva, E. A. 800 Pridmore, R. B. 1666 Priester, W. de 1712, 2509 Prine, J. E. 164 Prins, A. J. 614 Prinsloo, G. L. 379 Pritam Singh 2498 Pritchard, G. 1073

Rogers, A. J. 1605

Prlowagora-Szumlewicz, A. 2336 Proença, N. G. 1544 Proskuryakova, A. M. 173 Prot, E. Dabrowska- 2756 Provost, M. W. 3049 Prud'hom, J. M. 2455 Prud'hom, J. M. 2455
Prüss, W. R. 40
Puccini, V. 835
Puchkova, L. V. 162, 21
Pudney, M. 2976
Puech, M. 1340
Pujol, P. 124
Pumpurs, A. I. 2671
Pundlik, C. G. 938
Punyua, D. K. 1985
Purnell, R. E. 2625
Pushkar', E. N. 1105
Putut, D. 1587
Pyliotis, N. A. 3149
Qazi, A. R. 304
Quaglia, R. 2234
Queensland, James Cook
University 2132 162, 2105 Queensland, James Cook
University 2132
Quélennec, G. 2667
Quesada Allué, L. A. 491
Quillévéré, D. 2148
Quinn, P. J. 357
Quintana, A. P. 1887, 2796
Quintana, C. 1270
Quintero M., M. T. 2241
Qureshi, S. A. 3061
Raana, K. 1616, 1651
Rab, M. O. G. El- 886
Rabb, R. L. 1244
Rabello, E. X. 67, 125, 1015, 2069, 2070
Rabie, F. 1220
Rabinovich, J. E. 73, 1014, 2072, 3021 2072, 3021 2072, 3021
Rabinovitch, J. E. 495
Raboud, G. 2750, 2751
Rabson, A. R. 1971
Rachman, N. J. 881
Rack, G. 666, 3210
Radalowicz, A. 2554
Rademacher, R. E. 154
Radovsky, F. J. 1547, 2235, 2297

Rajulu, G. S. 2028
Ralisoa-Randrianasolo, B. O. 874, 2174
Ram, S. M. T. 2646
Rama Rao, P. 2631
Ramabrahmam, P. 342
Ramachandra Rao, T. 2379
Ramaswamy, K. 2663
Ramaswamy, N. 3236
Ramaswamy, N. 3236
Ramaswamy, S. B. 1828
Ramirez, G. A. 681, 3238
Ramos, A. Cagampang- 1635
Ramos, H. C. 1639, 1640
Ramos, H. da C. 2089
Ramos, H. M. Zapatero 1493
Ramoska, W. A. 1569
Ramsamy, M. 580
Ramsdale, C. D. 3048
Ranade, D. R. 2854
Ranaivosata, J. 2408
Ranasinghe, L. E. 2374
Randegger, J. Nicolas- 2664
Randolph, S. E. 652
Randrianasolo, B. O. Ralisoa-874, 2174
Raney, C. M. 1166
Rangel, E. F. 1536

Ranque, P. 1224 Rao, A. P. 432 Rao, B. K. 128 Rao, K. S. J. 678 Rao, L. R. 1908 678 Rao, L. R. 1908 Rao, M. G. 3247 Rao, P. R. 2631 Rao, P. S. 432 Rao, T. K. R. 1327 Rao, T. R. 2379 Rao, U. S. B. 2769, 2772 Rashti, M. A. Seyedi- 2134 Rasmegaev, Yu. M. 3141 Rasnitsyn, S. P. 121, 361 Rasnitsyna, N. M. 184 Rastegaev, Yu. M. 1674, 2839, 3140 Raszka, A. 1231 Rathburn, C. B., Jr. 145, 148, 1605 Rathor, H. R. 2117 Rathore, H. S. 786 Rattanarithikul, R. 1630 Rauch, H. 2044 Rauch, H. 2044
Ravaonjanahary, C. 2781
Rawas, A. Y. Al- 2472
Rawlings, P. 2092
Rawlins, S. C. 660, 1945, 2598
Ray, A. C. 910
Ray, A. P. 2774
Ray, D. E. 435
Ray, R. 949
Raybould J. N. 843, 846 Ray, R. 949
Raybould, J. N. 843, 846, 1362, 2148, 2452
Raymond, H. 1053
Raymond, H. L. 892, 1684, 1959, 2157
Raynack, R. A. 1348
Razdan, R. K. 1619, 2385
Ready, P. D. 2135, 2447, 3112
Reagor, J. C. 910
Rebbaltz C. 1659 Reagor, J. C. 910
Rebder de Andrade, J. C. 961
Rebholtz, C. 1659
Rechav, Y. 1995, 2579, 2624
Rechkalova, N. I. 2108
Reddy, E. M. 704
Reddy, G. R. 477, 3239
Reddy, G. S. 432
Reddy, M. 2631
Reddy, T. G. 3235
Reddy, Y. S. 2027
Redi, C. A. 1149
Redus, M. A. 2703
Ree, H. I. 2431
Ree, K. 3214, 3216
Reed, D. E. 91, 96
Reed, H. C. 631, 2194
Reed, R. C. 1313
Reeves, W. C. 1314, 1353, 1578, 1850, 2970
Regenstein, W. 52
Regis, J. 403
Reguer, R. 2449
Reháček, J. 1439, 2574
Rehbinder, E. 473 Rehbinder, E. 473 Rehder de Andrade, J. C. 67, 68 Rehse, E. 2971 Rehse-Küpper, B. 2572, 2573, 2971 Rehse-Küpper, B. 2572, 2573, 2971
Reichardt, W. 2525
Reid, G. D. F. 1369
Reid, J. A. 1638, 3063
Reifenrath, W. G. 802
Reisen, W. K. 129, 336, 804, 811, 1091, 1354, 1920, 2121, 2395, 2752, 2754, 3062
Reisman, R. E. 241, 401, 1965
Reiter, I. P. 1560
Remyannikova, T. N. 1104
Renaudet, J. 2780
Renda, V. 863
Repkina, L. V. 2611
Resh, V. H. 1874, 1875, 2297
Reshentikova, P. I. 1031
Rettich, F. 803, 1642
Reuben, R. 540, 1069, 1907, 1910, 2773, 2775, 2776
Reum, L. 3151
Reunala, T. 3026
Revina, T. A. 1748, 2610

Rey, J. M. 3173 Reye, E. J. 3109 Reye, E. J. 3109 Reyes-González, M. A. 1278 Reyes, M. A. 3225 Reyes, R. Pérez- 2081 Reynolds, G. T. 284, 1860 Reynolds, S. E. 1719 Reznikova, O. Yu. 2902 Rendes, A. R. 2623 Rhodes, F. H. T. 1239 Ribbands, C. R. 2099 Ribbeck, R. 1107, 1775, 2044, 2502 Ribbeck, R. 1107, 1775, 2044, 2502
Ribeiro, H. 1639, 1640, 2089
Rice, R. C. A. 2622
Richardson, B. B. 1595, 1596
Richter, K. 2054
Ricou, G. 1697
Ridding, G. A. 2587
Ridsdill Smith, J. 1169
Riedel, H. Sollers- 820
Riek, R. F. 18, 2175
Rieken, J. M. 2926
Riesen-Willi, U. 876
Rigatos, G. A. 2895
Rigatou, I. Kappos- 2895
Riha, J. 863, 981, 1688
Rihs, K. 1469
Riley, C. J. 416
Riley, J. R. 1250
Riner, J. C. 433, 668
Rinsvelt, H. A. van 1171, 2406 2406
Rinterknecht, E. 1512
Rios, R. Iglesias 1913
Rioux, J. A. 177, 441, 1342, 2115, 2446
Ripert, C. 1074, 2729
Ripley, J. J. 3240
Ristic, M. 1761
Ritter, F. J. 29, 30, 34, 1522
Rivas, L. I. 329
Rivière, F. 355, 1097, 2783, 2784, 2785
Rivosecchi, L. 969, 2613 2406 2784, 2785 Rivosecchi, L. 969, 2613 Roa, J. C. 2628 Robbins, W. E. 1218, 1969 Roberts, B. 869 Roberts, C. C. 1184 Roberts, D. M. 2460 Roberts, D. R. 142, 1633, 1218, 1969 Roberts, D. M. 2460
Roberts, D. R. 142, 1633, 2124, 2801
Roberts, D. W. 2802
Roberts, F. C. 1888
Roberts, F. H. S. 1200
Roberts, H. B. 2942
Roberts, I. H. 1452, 2555
Roberts, J. A. 1426, 1427
Roberts, J. A. 1426, 1427
Roberts, J. R., Jr. 807
Robertson, R. H. 2475
Robertson, R. H. 2475
Robertson, S. H. 1704
Robin, Y. 166, 2408, 2603, 2733, 2734, 2780
Robinette, R. 3032
Robinson, D. M. 3217
Robinson, J. 582, 1414, 1689
Robinson, P. B. 802
Robinson, W. H. 1827, 3244
Roby, T. O. 2415
Rocha e Silva, E. O. da 67, 68, 961, 1015, 1102, 2069, 2070, 2709
Rocha L. S. C. 1018 68, 961, 1015, 1102, 2069, 2070, 2709
Rocha, L. S. C. 1018
Rochat, C. Habersetzer- 292
Rochat, H. 2659
Rochiccioli, P. 1217
Rodey, M. V. 640
Rodhain, F. 1075, 2408
Rödl, P. 1032
Rodrigues, B. de Almeida 2034 2034 Rodrígues, V. L. C. C. 67 Rodríguez A., A. 185, 186 Rodríguez Caabeiro, F. 1481 Rodríguez, J. A. 1479, 1482, 1484, 1490, 1494 Rodriguez, J. D. 2544 Rodriguez, J. G. 1973, 1975, Rodriguez, P. H. 81, 2422

Rogers, A. J. 1603 Rogers, D. 859 Rogers, J. S. 1594 Rogiers, M. 2476 Rogoff, W. M. 231 Rohani, I. B. 2240 Rohdendorf, B. B. 2185 Rohdendorf, B. B. 2185 Rohe, D. L. 1887, 2795 Rojas, A. 2071 Rolland, A. 2147 Rollor, E. A., III 674 Rolseth, B. M. 1378 Romanski, B. 1516 Romero, A. 1348 Romero M., J. 185 Romney, S. V. 1303 Romoser, W. S. 1597, 1598, 1608, 1609 Rondinone, S. N. 2704 1608, 1609 Rondinone, S. N. 2704 Rongen, E. van 2509 Rorke, L. B. 3189 Rosa, A. E. 1453 Rosay, B. 1299 Rosenberg, P. 2540, 2988 Roshdy, M. A. 1983 Roslavtseva, S. A. 3177 Ross, D. 1612 Ross, D. H. 363 Ross, D. H. 363
Ross Institute of Tropical
Hygiene 783, 2427
Ross, M. H. 1000, 1526, 2328,
3001
Rosset, J. P. 1340
Rossi, M. G. C. 1960
Rossi, W. 1960
Roth, A. M. 2021
Roth, S. I. 3234
Rothamsted Experimental
Station United Kingdom Station, United Kingdom 3012 3012 Rotramel, G. L. 164 Roulston, W. J. 1199, 2545 Roura, E. 1478 Rowley, R. Hill- 799 Rowley, W. A. 137, 1535, 2127 Rowshanullah, G. M. 3150 Rowshanullah, G. M. 3 Roy, K. S. 3249 Roy, P. 2158 Roy, R. G. 1908, 2771 Royal, G. C. 2321 Rozeboom, L. E. 2812 Rozkošný, R. 898, Rozkošný, R. 898, 1942
Rubina, M. 2992
Rubini, P. G. 1149
Rudenchik, Yu. V. 1030
Rudin, W. 1652
Rudnick, A. 1085, 1310
Rudolph, D. 1979
Ruebush, T. K., II 1998
Ruegg, R. P. 494, 2067
Ruff, J. P. 888
Rufini, S. 2252
Rufli, T. 2568
Rühm, W. 839, 1366, 3123
Ruigrok, T. 2190
Ruiz-Maldonado, R. 546
Rumbo, E. R. 621, 3144
Rumfelt, T. 770
Runge, C. 1770, 2239
Ruppert, V. 2237
Ruprah, N. S. 2602
Ruschell, R. J., Jr. 1824
Russell, F. E. 289, 1221
Russell, F. E. 289, 1221
Russell, G. B. 2498
Russell, R. C. 534, 535, 1093
Russo, R. J. 805
Rusted, T. N. 2820
Rutledge, L. C. 1283, 2741, 2742
Ruzo, L. O. 1466 1942 Rutz, D. A. 2183, 3179 Ruzo, L. O. 1466 Ryan, K. J. 3165 Ryan, M. F. 1696 Ryba, J. 1343 Ryckman, R. E. 1011, 1012 Ryl'nikov, V. A. 1038 Sabatini, A. 2101 Sabiti, C. K. 2248 Saccà, G. 970

Saccharin, C. 1118 Saccheta, L. de Abreu 1050 Saccheta, L. de Abreu Sadasivam, P. 1532 Sadi, H. I. Al- 3211 Saffar, S. Al- 2472 Safronov, A. V. 2586 Sagan, H. 1707 Sagdieva, P. D. 2040 Sahuquillo-Herraiz, C. 1483 Saifuddin, U. T. 1616, 1920, 2752 Saikku, P. 995, 2973 Saikku, P. 993, 2973 St. George, T. D. 358 St. Marie, R. L. 389 Saipan, H. 1644 Saikhanov, B. G. 2605 Saito, K. 850 Sakai, M. 1228, 2049 Sakai, R. K. 1042, 1616, 1651, 1920, 2097, 2412, 2752 1920, 2097, 2412, 2752
Sakaki, I. 1319, 3074
Sakamoto, Y. 592
Sakka, M. 2178
Sakurai, H. 2489
Salama, H. S. 79
Salandra, M. La 835
Salaün, J. J. 2603, 2733
Salazar, B. D. 2081
Saleh, M. A. 693
Saleh, R. S. 214, 657
Sales, S. 203, 1383, 1564, 1582, 2827
Salgado, A. A. 1018 1582, 2827 Salgado, A. A. 1018 Salgado, J. 177 Salières, A. 2363 Salmon, J. 677 Saluzzo, J. F. 2603, 2733, 3047 Salvati, L. 2648 Samarawickrema, W. A. 2417, 2418
Same-Ekobo, A. 2729
Sameck, J. H. 2591
Samman, J. 1928, 3117
Sampieri, F. 292
Sams, G. R. 1835
Samšiňák, K. 1235, 1456
Samson, F. 2771
Samson, R. A. 1864
Samuels, S. 1048, 1049
Sanborn, J. R. 956
Sánchez Acedo, C. 1495
Sánchez-Covisa, A. 1482, 1484, 1488, 1490, 1494
Sánchez, D. 2704
Sánchez Díaz, B. 1060
Sanchez-Medina, M. 3225
Sánchez, T. 2286 2418 Sánchez Díaz, B. 1060
Sanchez-Medina, M. 3225
Sánchez, T. 2286
Sandeman, D. C. 2855
Sanders, D. P. 1704
Sanchers, E. J. 1838
Sandhu, G. S. 3004
Sandjan, P. 855
Sandor, I. 2542
Sands, P. 229
Sankaran, T. 1268, 1836
Sannier, C. 2465
Santianj, G. 2358
Santos-Basio, L. 1321
Santos Grácio, A. J. 1641
Santos, J. L. F. 2070
Santos, M. A. 2647
Santrach, P. J. 634
Saratsiotis, A. 2448
Sardar Singh 737
Sardey, M. R. 1937
Sardey, M. R. 19 Sasaki, S. 2178
Sasira Babu, K. 74
Sastry, G. A. 2631
Sather, G. E. 1345
Satija, K. C. 2646
Satiya, K. C. 1455
Sato, H. 2870
Sato, T. 2488
Satô, Y. 2193

Sattelle, D. B. 6, 1514, 1515, 1840 Saubert, S. 729 Sauer, J. R. 1757, 1978, 1981 Saugstad, E. S. 2100 Saunders, D. S. 620, 1729, 2886 Saura, A. 1581, 2104, 2759 Sauta, A. 1361, 2104, 2739
Sawadogo, R. 2148
Sawicki, R. M. 428
Saxena, A. K. 56, 1006, 1531, 2332, 3014
Saxena, B. P. 2670
Saxena, S. C. 1520
Sayles, P. C. 2351
Sazonov, A. A. 2963
Sazonova, E. V. 2671
Scanlon, J. E. 142, 1633
Schaefer, C. H. 211, 1611, 1894, 2481, 3066
Schaefer, C. W. 610
Schah-Zeidi, M. 1394, 2166
Schaub, G. A. 1016
Schein, E. 255, 1197, 1432, 2594, 2627
Scheller, K. 3170
Schenone, H. 2071
Scherer, W. F. 1351, 1646
Scherphof, G. 403
Schiaffino, G. P. 2234
Schiller, E. L. 15
Schilling, P. E. 1620
Schlechter, M. S. 1066
Schlein, Y. 566, 2424
Schlepper, R. 839, 1366
Schliwa, M. 3233
Schmidt, C. D. 1407, 2884
Schmidt, C. D. 1407, 2884
Schmidt, G. 309
Schmidt, J. O. 2195
Schmidtmann, E. T. 2441
Schmidt, G. 309
Schmidt, J. A. 2026
Schnetter, W. 469
Schnitzerling, H. J. 1199
Schnut, L. F. 2814
Schoenj, E. 823
Schoeppner, R. F. 113
Schofield, C. J. 492, 2338
Scholl, P. J. 158, 523, 809, 823 833 Schowalter, T. D. 218 Schreck, C. E. 1365, 2440, 2808 2808
Schröder, E. 2502
Schroder, G. D. 2341
Schucht, G. 2782
Schumann, H. 2502
Schuntner, C. A. 2599
Schwan, T. G. 1882, 1885
Schwander, J. 1511
Schwartz, L. M. 1719
Schwarz, M. 76, 593
Schwendtffeger, F. 957 Schwarz, M. 76, 593
Schwerdtfeger, F. 957
Sciesiński, K. 2281
Scirocchi, A. 2515, 2743
Scorza, J. V. 3069
Scossiroli, R. E. 968
Scott, D. W. 944
Scotton, G. L. 151
Scozzari, R. 2762
SEAMEO Regional Center for Tropical Biology, Indonesia 726 Seawright, J. A. 144, 816, 1317, 1579, 2129, 2396, 2411 Sebae, A. H. El- 697 Sedov, V. I. 2163 Sedykh, E. L. 103 1038

Sedykh, E. L. 1038 Seeber, E. 459 Segerman, J. 417 Segnini, S. E. 3069 Séguy, E. 2994 Sekeris, C. E. 3170 Seledtsov, I. I. 2911 Self, L. 1059 Self, L. S. 1583 Sellers R. F. 2444 Sellers, R. F. 2444

Sellin, E. 200, 565, 1121, 2835, 3137 Selzer, R. 2846 Senaud, J. 255 Senni, M. I. 2252 Senogle, D. R. 2394 Sepasgosarian, H. 1205 Sereda, B. 2865, 3181 Seregeg, I. G. 779
Sergiev, V. P. 44
Serra Freire, N. M. da 2682
Service, M. W. 841, 1336, 1612, 2957 Service, M. W. 841, 1336, 1612, 2957
Serzhanov, O. S. 1846
Sestović, M. 3246
Sethi, G. R. 2688
Settipane, G. A. 2541
Seubert, S. 267
Seventer, H. A. van 2792
Seyedi-Rashti, M. A. 2134
Seymour, P. R. 2958
Seymour, W. M. 2650
Shaaya, E. 2160
Shadduck, J. A. 3242
Shafiq, M. 2472
Shah, P. V. 628
Shalaby, F. M. 2156
Shammaa, N. A. El- 2851
Shamsiev, S. V. 2137
Shanahan, G. J. 609, 897, 1127, 1151, 2506, 2866
Shanbaky, N. M. 1760
Shani, A. 1144
Shapovalova, G. K. 3176
Sharma, R. 885
Sharma, A. K. 2864
Sharma, G. P. 179, 514, 879, 3148
Sharma, K. P. 1339 3148
Sharma, K. P. 1339
Sharma, O. P. 2432
Sharma, Q. P. 2432
Sharma, R. N. 1805
Sharma, V. P. 1306, 1619, 1893, 2385
Sharp, J. L. 1176
Sharpe, P. J. H. 425
Shaw, J. J. 42, 2447, 3112
Shaw, R. F. 530, 532, 1583, 1586, 1892, 1923
Shaw, T. 2443
Shawer, M. F. 2943, 2944, 2945
Shazli, A. 657 3148 2945
Shazli, A. 657
Shchedrin, V. I. 498
Shcherbak, V. P. 3070
Shcherbak, V. P. 3070
Shchrbak, V. P. 3070
Shchrbak, V. P. 3070
Sheffield, H. G. 2125
Sheikh, N. A. 3194
Shekhter, O. V. 800
Shelgaonkar, V. L. 938
Shelley, A. J. 856, 2154
Shelley, B. K. 591
Shemanchuk, J. A. 2428
Shemesh, M. 643
Shenker, I. R. 2621
Shepard, C. 2208
Shepard, C. C. 2703
Shepherd, R. C. H. 500, 1549, 2350
Sherald, A. F. 2693 Sherald, A. F. 2693 Sherertz, P. C. 1519, 2260 Sherif, S. I. El- 1039 Sherlock, I. A. 2077, 2078, 2708
Shestakov, V. L. 2586
Shetty, P. S. 2815
Shilova, S. A. 1030, 1038
Shim, J. C. 2052
Shimizu, M. 2010
Shinonaga, S. 717, 1731, 2177
Shipp, E. 579
Shirasaka, A. 2405
Shisler, J. K. 2397
Shivaswami, K. C. 1908
Shkenderov, S. 1422 2708 Shivaswami, K. C. 1908 Shkenderov, S. 1422 Shkinev, A. V. 2197 Shklar, A. 643 Shmuter, M. F. 1027 Shockley, P. 2592 Sholdt, L. L. 62 Shomein, A. M. 3064 Shore, L. S. 643 Shoukry, A. 1405, 2763 Shreter, A. I. 246

Shroyer, D. A. 3033 Shugart, J. I. 1703, 2513 Shukla, G. S. 2861 Shukla, R. N. 1717 Shute, P. P. 443 Shuvarikov, B. P. 1030 Sichinava, Sh. G. 1064 Sid, E. D. K. El- 3064 Siddall, J. B. 36 Siddiqui, T. F. 336, 1091, Sidhu, D. S. 2322, 2536 Sidhu, D. S. 2322, 2536 Sidorova, G. A. 1747 Sidrak, W. 1428 Sie, A. 2788 Sielert, D. 1535 Siemicki, R. 3050 Sifontes Ferrer, R. 1058, 1060 Sigafus, R. 1603 Silberstein, A. J. 355 Siltanen, I. 3026 Silva, E. O. da Rocha e 67, 68, 961, 1015, 1102, 2069, 2070, 2709 2070, 2709

Silva Mouga, D. M. D. da 964

Silva, N. R. S. da 2681

Silverman, J. M. 483

Silverstein, R. M. 2578

Simco, J. S. 2922

Simetskiĭ, M. A. 3153

Simizu, B. 1902

Simonet, D. E. 346

Simpson, C. F. 2591

Simpson, D. I. H. 2592

Simpson, R. G. 1660 2070, 2709 Simpson, D. I. H. 2592 Simpson, R. G. 1660 Sinègre, G. 171, 177, 551, 1588, 1589, 1590, 1591, 3037, 3039 Singer, S. 1830 Singh, D. K. 1183, 2617, 3198 Singh, K. I. 1950 Singh, R. C. P. 3249 Singh, R. N. 2861 Sinha, V. P. 149 Sinonaga, S. 2852 Sinsko, M. J. 80 Siong, Y. 531 Sirivanakarn, S. 353, 1555 Sirivanakarn, S. 353, 1555 Sirivanakarn, S. 353, 1555 Sirleaf V. 1046 Sitaraman, N. L. 1908 Siuda, K. 1181, 2588, 2589, 2900 Sjogren, R. D. 1610, 1853, 1894 Sjogren, R. D. 1610, 1853, 1894
Sjöström, P. 1664
Skadin'sh, E. A. 641
Skaer, H. L. 2521
Skalon, O. I. 2719
Skidmore, P. R. 1386
Skierska, B. 825, 1568
Skinner, J. C. 1595, 1596
Skinner, W. A. 2741, 2742
Skolnik, M. I. 1247
Skortsova, P. G. 1846
Skuratowicz, W. 330
Skvortsova, T. M. 1747, 2000, 2586, 2963, 3090
Slater, J. A. 2999
Slater, J. D. 1073
Slavnova, T. II. 1173
Sleeman, D. P. 768, 1679
Slonina, C. 882
Sloss, M. W. 977
Smart, L. I. 3168
Smets, P. 2408
Smiley, R. L. 2643
Smirnova, A. S. 248
Smirnova, G. V. 529
Smirnova, O. I. 2220, 2593, 2605
Smirnova, S. N. 1225 2605 Smirnova, S. N. 1225 Smit, F. G. A. M. 769 Smith, A. L. 1896 Smith, C. R., Jr. 1603 Smith, D. 1365 Smith, J. D. 2703 Smith, J. J. B. 762 Smith, J. R. 1169 Smith, K. G. V. 578, 595, 3029 2605 3029 Smith, N. 1292, 1365, 2440, 2808

Smith, R. L. 2179 Smith, S. M. 781, 1361 Smith, T. A. 94, 2796 Smith, W. T. 1975 Smithers, C. N. 404 Smolina, N. A. 2105 Smolina, N. A. 2105 Smrkovski, L. L. 2369 Sneller, V. P. 16, 1092 Snelson, J. T. 451 Snow, J. W. 899, 1399, 1708, 1710, 1945 Snow, W. F. 1330, 2758 Soares, G. G., Jr. 1864 Soares, M. R. J. 2676 Soares, V. A. 2080 Soboleva, R. G. 25, 232, 601, 2168 2168 Sobotka, A. K. 1-Sobotka, W. 705 1423, 2201 Sociedade Brasileira para o Progresso da Ciência 960 Progresso da Ciência 96 Soderlund, D. M. 751 Soeharyono 1084 Sohal, R. S. 397 Sokolova, A. A. 1026 Solari, A. J. 1017 Sollers-Riedel, H. 820 Solomakha, A. I. 1676 Solomon, K. R. 656, 2016, 2551 2551
Solomon, L. 672
Solopov, N. V. 1124
Soloukhin, V. Z. 3054
Soman, R. S. 1069
Sommer, S. H. 2318
Sone, F. 2417, 2418
Sonenshine, D. E. 410, 2558, 2578, 2584, 2954
Soni, J. L. 640, 1177
Sonnet, P. E. 593, 594
Sonobe, R. 2858
Sorensen, K. A. 732, 733, 734
Sornmani, S. 2799 Sonobe, R. 2858 Sorensen, K. A. 73 Sornmani, S. 2799 Sorrie, B. A. 2352 Sosnina, E. F. 60 South Africa, Department of Agricultural Technical Services 310, 2987 South African Institute for Medical Research 996 South Australia, Waite Agricultural Research Institute 8 South Pacific Commission 2375 2375
Southern, D. I. 1376, 1672
Southgate, B. A. 46, 1096
Southwood, T. R. E. 2122
Souza, J. A. A. de 2078
Souza Lopes, H. de 2890
Souza Lopes, O. de 1050
Spadoni, R. D. 2372
Sparks, T. C. 1393
Spates, G. 1955, 2524
Speert, D. P. 2905
Spence, L. 2964
Spencer, J. P. 1570, 1889
Spencer, M. 1917
Spencer, T. S. 2946
Spičák, V. 1456
Spičák, V. 1456
Spielberger, U. 367, 1386
Spielman, A. 1921, 1998, 2003, 2095, 2116, 2575
Spiess, J. 3184
Spirina, T. A. 3177
Spitalier-Kaveh, H. 2367
Splisteser, H. 2044
Sponga, M. A. González-Spradbery, J. P. 589, 590 Southern, D. I. 1376, 1672 Sponga, M. A. González-Spradbery, J. P. 589, 590 Squires, E. J. 2592 Sreenivasan, M. A. 264, 265 Sreng, L. 2604 Srihongse, S. 147 Srinivasa Reddy, Y. 2027 Srinivasan, A. 622, 875, 880, 1395, 1416, 1691, 1949, 2518, 2519 Sriraman, P. K. 2631 Srivastava, S. N. 697 Srivastava, U. S. 1160 Ssebalija, J. Sserunjoji Sserunjoji-Ssebalija, J. 373 Stacey, B. R. 2907

Staddon, B. W. 997
Stam, J. W. E. 2242
Stamatović, L. 2217
Stamford, S. 2153, 2470
Stamm, K. 3123
Stanford, G. D. 2552
Stanghellini, A. 1118
Stanley, M. A. 1191
Stapley, J. H. 2842
Stark, H. E. 1150, 1282
Stark, W. S. 1131
Starostin, S. P. 529
Starre, H. van der 2190
State College of Agricultum State College of Agriculture and Life Sciences, Cornell University 2290
Stavenga, D. G. 1131
Stay, B. 1267, 2323, 2330
Steele, R. W. 1130
Steelman, C. D. 1620, 2391
Steffan, W. A. 1580, 2090, 3035 Steger, R. J. 241 Stegnii, V. N. 1078 Steiner, W. W. M. 143, 806 Stejgwiłło-Laudańska, B. 1914 Stella, E. 2613 Stelzer, G. 472 Sternburg, J. G. 1128, 1129, 2324
Stewart, D. C. 2490
Stewart, J. 886
Stewart, R. J. 99, 1862, 1894
Stewart, S. J. 1433, 1534
Steyskal, G. O. 1101
Stieger, M. 3182
Stiller, D. 2576
Stinner, R. E. 1073, 1244
Stinson, R. S. 2885
Stirling, A. M. 104
Stoehr, T. 1875
Stoffolano, J. G., Jr. 1822, 2867 2324 2867 Stojanović, R. 2217 Stokes, D. R. 1521 Stollar, V. 2978 Stone, B. F. 1976 Storey, J. 2096 Stout, I. J. 2557 Strausfeld, N. J. 2186 Streichert, J. 1753 Strelkova, M. V. 2138 Streng, J. A. 289 Strickman, D. 146 Strome, P. A. 927 Strong, M. B. 2702, 3165 Strunnikov, V. A. 1496 Styczyńska, B. 705, 2257, 2865, 3181 Stojanović, R. 2217 Stokes, D. R. 1521 Styczynska, B. 705, 225 2865, 3181 Su, S. P. C. 3234 Suárez, O. M. 1347 Subbarao, S. K. 1619 Subbaram, V. 3235 Subhashini, K. B. 1005 Subrahmanyam, D. 342 Sucharit S. 1630 Subrahmanyam, D. 342 Sucharit, S. 1630 Sudershan, P. 2325 Sugumar, M. 1206 Suguna, S. G. 1893, 2411 Suharyono, W. 2788 Sukhapesna, V. 374 Sukhar, F. 3110 Sukovatova, L. M. 2528 Sulaiman, H. M. S. 127 Suleman, M. 2395 Sulianti, J. 1084 Sulianti Saroso, J. 1294, 1644, 2788 2788
Sullivan, W. N. 1066
Summers, K. M. 2493, 3149
Summers, R. W. 883
Sun, Z. 343
Sunarto, J. 1294
Sundaram, R. K. 2663
Sundararaman, S. 1631
Sundet, W. D. 1709
Sundland, B. R. 2778
Supalin 530, 532, 1583, 1586, 1892, 1923
Supardi, P. 2090
Suplicy Filho, N. 212 2788

Supratman 530, 532, 1583, Supratman 530, 532, 1583, 1586, 1892, 1923
Sur, S. 3224
Sureau, P. 2408, 2603, 2903
Surkova, L. A. 498
Surman, M. 1288
Suski, Z. W. 959
Sustek, J. 426
Sutcliffe, J. F. 1667
Sutherland, B. 215, 894, 1364, 2802, 2150 2880, 3159 2880, 3159 Sutherland, D. J. 1821 Sutherland, I. D. 261 Sutherland, S. K. 1459 Sutherst, R. W. 261, 645, 1201, 1426, 1427, 1752 Suto, C. 749, 1736, 3008 Sutrisno, R. H. 1587 Suzuki, H. 287, 720, 2925, 3230 Suzuki, T. 779, 2243 Suzuki, Y. 1465 Suzzoni-Blatger, J. 2363 Sweeney, A. W. 506, 511 Switzerland, Eidgenössischen Forschungsanstalt für Milchwirtschaft Liebefeld-Milchwirtschaft Liebefeld Bern 2181 Sycheva, I. M. 2610 Sylla, O. 1381, 1382, 2834 Symington, I. S. 2634 Szadziewska, M. 1568 Szczęsna, Z. 1009 Sztabert, B. Grzelakowska-2033 Sztankay, M. 1439 Szumlewicz, A. Prlowagora-2336 2336 Szymański, S. 2630, 3195 Tabachnick, W. J. 545, 2805 Tabatabai, M. 2932 Tàcu, V. 1242 Tâcu, V. 1322 Tadano, T. 130, 1600 Tadano, T. 130, 1600
Taddei-Ferretti, C. 2891
Tadzhieva, V. S. 333, 2106
Taha, A. M. 2490
Tahori, A. S. 3208
Takada, N. 942
Takagi, M. 50, 750
Takahashi, H. 706, 714, 716
Takahashi, J. 2421
Takahashi, J. 2421
Takahashi, R. M. 91, 98, Takahashi, R. M. 91, 98, 1862, 1894, 1918
Takahashi, S. 3005
Takamatsu, H. 3104
Takamizawa, K. 1941
Takaoka, H. 714, 840, 852, 1367, 2822 1367, 2822
Takaoka, M. 2405
Takayanagi, H. 1269
Takeuchi, T. 788, 1146, 1147
Takken, W. 2828
Talanov, R. A. 1472
Talman, E. 1522
Tamarina, N. A. 2879
Tamulinas, S. H. 910
Tan, R. 1644, 2788
Tanago, M. G. del 1499
Tanaka, A. 2051
Tanaka, H. 706, 723
Tanaka, K. 2100 Tanaka, K. 2100
Tandon, N. 3224
Targett, G. A. T. 1592
Tarlazzi, O. 975 Tarlok Singh 2322 Tarry, D. W. 2956 Tashmukhamedov, B. A. 2197 Tatchell, R. J. 1179 Tatchell, R. J. 1179
Tawata, S. 1463
Tawfik, M. F. S. 1039
Taylor, A. E. R. 830, 858
Taylor, A. M. 568, 2469
Taylor, B. 1653
Taylor, F. 504
Taylor, P. 1384, 1457, 3135
Taylor, P. 1384, 1457, 3135
Taylor, S. M. 2625
Taze, Y. 200, 565, 1121, 3137
Teakle, R. E. 2314
Teel, P. D. 2553
Teetor-Barsch, G. E. 612 Teetor-Barsch, G. E. 612

Teissier, G. 2162
Teixeira, R. 2078
Tej Singh 1010
Telford, J. N. 1324
Tempelis, C. H. 3023
Templeton, A. R. 2270
Teng, K. F. 2335, 2656
Tengbergen, T. van E. 2018
Tenorio, J. M. 2235
Tenquist, J. D. 982, 3197
Teremenko, L. A. 2219
Terriere, L. C. 2507, 2508
Terry, M. 1761
Tesh, R. B. 1645, 2128
Teskey, H. J. 217, 222
Tewari, R. R. 393, 623, 1132, 1156
Tewari, S. C. 1907, 1910 Tewari, S. C. 1907, 19 Tewarson, N. C. 2050 Thakare, V. K. 1937 Thakur, S. S. 128 1907, 1910 Thammayya, A. 3224 Theiss, J. 1727 Theodoridis, A. 3105 Theyasagayam, E. S. 531, 2806 2806
Thévenaz, P. 3088
Thiagarajan, C. 3236
Thibault, D. H. 2736
Thierry, R. 1443
Thiesen, W. L. 2678
Thirel, R. 2746, 2784
Thiruvengadam, V. 2378, 3034 Thiruvengadam, V. 2378, 303
Thivolet, J. 3213
Thomas, A. W. 222
Thomas, G. M. 2031
Thomas, H. 923
Thomas, J. A. 509
Thomas, L. A. 2622, 2974
Thomas, M. P. 1928
Thomas, P. Ambroise- 1074
Thomas, V. 578, 2978
Thomas, W. R. 1881
Thomay, M. Auber- 2073
Thompson, B. H. 2455, 2821
Thompson, J. L. Cloudsley-Thompson, J. L. Cloudsley-1311 Thompson, K. C. 2628
Thompson, M. J. 1218
Thompson, P. A. 81
Thompson, P. G. 2599
Thompson, P. H. 1164, 1166
Thompson, S. N. 2273
Thompson, W. H. 1071, 2969
Thomson, R. C. Muirhead-Thompson, W. H. 1071, 290
Thomson, R. C. Muirhead1114
Thorne, J. H. 387
Thornton, D. P. 782
Thorpe, A. 1730
Thorsell, W. 2262
Thorson, T. E. 2712
Thurnheer, U. 3184
Thylefors, B. 2147, 3127
Tieben, G. L. 1424
Tiel, N. van 2665
Tiittanen, K. 3243
Tikaram, S. M. 1455
Tikasingh, E. S. 505
Timm, R. 2320
Timm, R. M. 58, 754, 1675
Timmer, J. 901
Timokhin, G. N. 376
Timon-David, P. 1533 Timokhin, G. N. 376 Timon-David, P. 1533 Timoney, P. J. 3207 Tinker, M. L. 349 Tinsley, T. 1804 Tirgari, S. 224 Tiwari, S. C. 955 Tobe, S. S. 1267, 2323, 2330 Todd, R. G. 2398 Todorov, D. A. 1779 Toit, C. L. N. du 2768 Toit, C. L. N. du 2768
Tolliver, S. C. 2477, 3175
Toma, T. 821
Tomita, K. 298
Tongu, Y. 517
Tønjum, A. M. 3127
Tonkin, S. L. 2930
Tonn, R. J. 69, 70, 1059, 2706
Toolson, E. C. 2307
Torrado, C. E. de B. de Grillo 2657 Torrado, J. M. Grillo 262

Author Index Toś-Luty, S. 1430 Toschkoff, A. S. 3196 Toudic, A. 2784 Tounkara, A. 1224
Tounkara, A. 1224
Tourtellot, M. K. 999
Tovey, E. 1208
Tovornik, D. 445, 2126 Townsend, L. H., Jr. 346 Townson, H. 858 Toye, B. O. 308 Traavik, T. 249, 538, 922, 2600, 2965 Tramezzani, J. H. 324 Traore, T. 2837 Trautmann, K. H. Travis, B. V. 3118 1002 Travland, L. B. 354, 2420, 2428 2428
Treherne, J. E. 997
Trevethan, P. 607
Trevino, G. 1761
Trifonova, T. K. 3250
Trimble, J. M. 828
Trimble, R. M. 140, 781
Trinca, J. C. 1459, 1506
Tripathi, C. P. M. 878
Trinathi R. K. 390 Tripathi, C. P. M. 878 Tripathi, R. K. 390 Trippa, G. 2762 Trojan, P. 1722 Trosper, J. H. 939 Trouillet, J. 2140, 2141 Trpis, M. 817, 827 Trukhinova, S. A. 1041, Trumble, J. T. 905 Tsetlin, V. M. 1225 Tsetse Research Laborate 1041, 2387 Tsetse Research Laboratory, United Kingdom 1668 Tsika, N. Baya- 842 Tsintsadze, J. Sh. 1187 Tsintsadze, J. Sh. 1187 Tsizin, Yu. S. 800, 2671 Tsuji, H. 298 Tsuyama, S. 906 Tucker, M. R. 2444 Tully, J. G. 3189 Tumrasvin, W. 1731, 3143 Tumrasvin, W. 1731, 3143
Tun, Maung Maung 2714
Turk, F. A. 666
Turnbull, C. 217
Turner, E. C., Jr. 346, 941, 1542, 1829
Turner, J. W. 2314
Turner, M. J. 3147
Turos, M. 2923
Turnen, S. 1815, 2689
Tuttle, C. 1073
Tuttle, J. W. 2494
Tyczkowski, J. 616
Tyndale-Biscoe, M. 2570
Tzeng, M. C. 2251
Uchida, K. 2731
Uchikawa, K. 282, 287, 662, 663, 666, 943, 1773, 1791, 2582, 2637, 2644, 3219, 3230 2582, 2637, 2644, 3219, 3230 Ude, J. 2320 Uebel, E. C. 593 Ueda, M. 2434 Uemoto, K. 3124 Uilenberg, G. 651, 1197 Ukhova, V. P. Derbeneva-2254 Ulmanen, I. 1581, 2104, 2759, 3026 Umiński, J. 1430 Undeen, A. H. 848, 2455 Undritsov, M. I. 2238 United Kingdom, Agricultural Development and Advisory Service 2278 United Kingdom, Agricultural Research Council 1508 United Kingdom, Centre for Overseas Pest Research United Kingdom, Department of Agriculture for Northern Ireland 2005 United Kingdom, Rothamsted
Experimental Station 3012
United Kingdom, Tsetse Research Laboratory 1668

United States Department of Agriculture 313, 2161, 2233, 3006, 3155 Università degli Studi di Milano University of Agricultural Sciences, Hebbal, Bangalore, India 2017
Unwin, D. M. 772
Uralov, A. U. 1747
Urvölgyi, J. 1439
Uspenskii, I. V. 1178, 2254, Spenskii, I. V. 1178, 2234, 2611
Utech, K. B. W. 1201
Uthaman, M. 2027
Utrio, P. 1086
Utsumi, K. 2169
Utterback, W. W. 1746
Vachon, M. 1233, 1234
Vaheri, A. 995, 2973
Vajime, C. G. 2148
Valade, M. 166, 1052, 1053, 2734, 2780
Vale, G. A. 368, 573, 3136
Valentine, M. D. 2201
Valevich, T. A. 2138
Valeza, F. S. 1312
Valovage, W. D. 1001
Van Asbeck, M. C. van der Hooft 423
Van Bronswijk, J. E. M. H. 2611 Van Bronswijk, J. E. M. H. 933, 1799, 2018, 2563, 2912 933, 1799, 2018, 2563, 2912 Van de Lustgraaf, B. 933 Van den Lustgraaf, B. 2565 Van der Geest, L. P. S. 1117 Van der Groen, G. 990 Van der Pas, L. J. T. 1392 Van der Starre, H. 2190 Van Drongelen, W. 2991 Van Ebbenhorst Tengbergen, T. 2018 2018 Van Eck, W. H. 383 Van Gerwen, A. C. M. 1167, 2189 2189
Van Handel, E. 1629
Van Hes, R. 295, 1227
Van Kleef, J. 2016, 2551
Van Krieken, H. 423
Van Lennep, M. 1008
Van Loon, J. 1743, 2173
Van Neste, D. 677
Van Pelt-Verkuil, E. 1712 1721, 1961, 2176, 2509 Van Rinsvelt, H. A. 1171, 2406 Van Rongen, E. 2509 Van Seventer, H. A. Van Tiel, N. 2665 Van Vorstenbosch, C. J. A. H. V. 651
Van Zoost, T. 2022
Vance, H. L. S. 909
Vancouver Research Station, British Columbia VandeHey, R. C. 1293 Vandekar, M. 698 Vandemark, N. L. 1239 Vandenberg, R. 1208 Vanderberg, J. P. 1048, 1049, 1332 Vanderroost, C. 1743 Vankova, S. A. 1153 Vargas, L. 3111 Vargas, M. 2208 Vargas V., M. 3118 Vargová, M. 297 Varis, A. L. 2289, 2947 Varkonda, Š. 297, 426 Varma, G. C. 3004 Varma, M. G. R. 2554, 2592, 2976 Varma, P. 1160 1332 Varma, P. 1160 Vasanthakumari, S. 1285 Vásárhelyi, T. 1543 Vasconcello Coelho, M. de 1926 Vashchenok, V. S. 766 Vasil'ev, P. N. 242 Vásquez, A. M. de 3024 Vater, G. 642 Vattier-Bernard, G. 2140, 2141 Vaughan, J. A. 2349

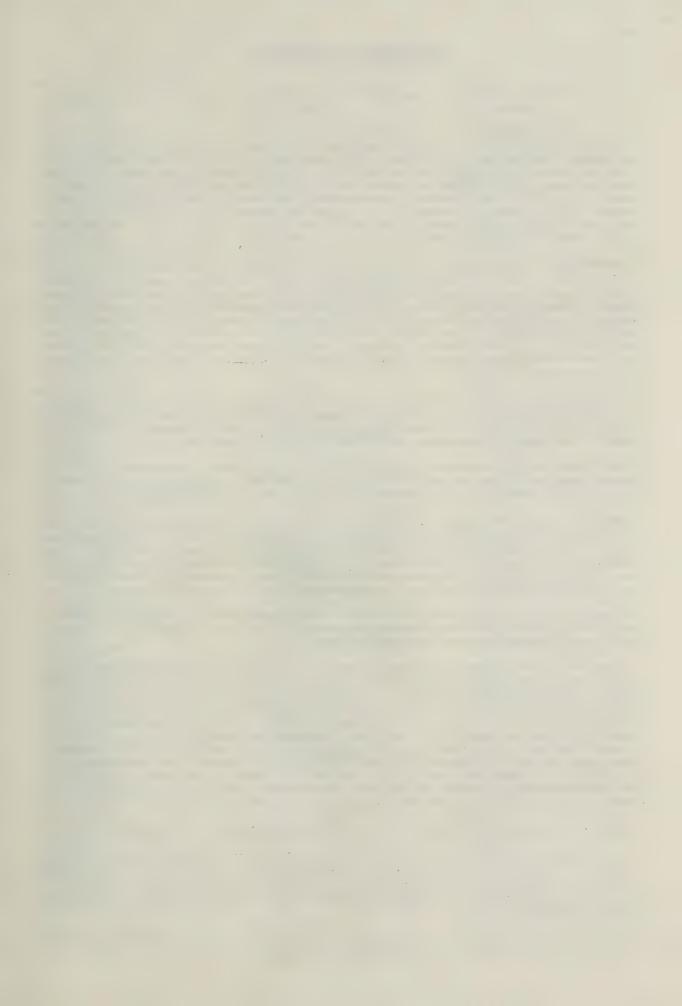
Vaughn, C. R. 1243, 1251, 1252, 1253, 1254
Vazquez, R. 269
Veiga, L. A. 489
Velasco A., J. A. 1060
Velez, A. Casta- 1643
Veljanov, D. K. 3196
Venable, T. L. 3147
Venkatesan, P. 1327
Venkatesan, R. A. 1206, 322
Venkatesh, K. 3145
Venkateswarlu, D. 686, 948
Verani, P. 263, 2967
Vercammen-Grandjean, P. H. 2931
Verdier, J. M. 1342, 2115 1252, 1253, 1254 1206, 3220 2931 Verdier, J. M. 1342, 2115 Verkuil, E. van Pelt- 1712, 1721, 1961, 2176, 2509 Verma, V. 2864 Vermeil, C. 2901 Vermeulen, J. B. 39 Vermeil, C. 2901
Vermeulen, J. B. 39
Vernerey, M. 2782
Vernon, T. M. 2615
Verves, J. C. 2185
Verves, J. C. 2185
Verves, J. C. 2185
Verveil, P. E. J. 1522
Veselica, M. M. 1503
Vidal, B. C. 1538
Vieira, A. M. 348
Vigne, B. 3215
Vigo, G. 171, 1591, 3039
Vijayalakshmi, S. 477, 744
Vijayan, C. P. 1908
Villafurte, M. C. 2704
Villar, M. de 2079
Villarroel, F. 2071
Villiers, I. L. de 655
Vinaras, R. 3173
Vincent, A. L. 517
Vincent, J. F. V. 871, 1720
Vinogradova, E. B. 2878
Vinokurova, N. S. 557
Vinson, S. B. 1172, 2194
Vipulakom, P. 2645
Virgona, C. T. 1469
Vivant, J. F. 1118
Viviani, G. 2253
Vizcaino, O. 1761
Vladimirova, V. V. 2671
Vobrázková, E. 1456
Vogel, G. N. 1190
Voigt, W. P. 1197, 1432
Volkov, Yu. P. 2669
Volkova, A. P. 1225
Volotin, E. I. 1434
Von Allmen, S. D. 1643 Volotin, E. I. 1434 Von Allmen, S. D. 1643 Von Bonsdorff, C. H. 995, 2973 Voorhorst, R. 423 Vorontsova, T. A. 1748, 2911 Vorstenbosch, C. J. A. H. V. Vorstenbosch, C. J. A. H. V. van 651
Vos, J. P. de 418
Vos, V. de 3139
Votyakov, V. I. 437
Vyrosteková, V. 1792
V'yukov, V. N. 569
Waage, J. K. 2294
Wada, Y. 943, 2020, 2405, 2431, 3223
Wadano, A. 382
Wagland, B. M. 1426, 1427
Wagner, R. J. 795, 1089
Wagstaff, K. 1300
Waite Agricultural Research Waite Agricultural Research Institute, South Australia 8 Makelin, D. 1817
Walder, R. 1347
Walker, A. K. 2058
Walker, A. R. 919, 2443
Walker, G. D. 1956
Walker, J. B. 1992
Walker, R. J. 1504
Walker, E. G. 45 Walker, R. J. 1504
Wallace, J. B. 2300
Wallace, M. M. H. 2315, 2570
Wallis, R. C. 1896, 1897, 1898
Walser, R. 1469
Walsh, J. F. 1109, 1110, 2453
Walter, G. 1753, 3187
Walter, L. J. 1894 Walters, L. L. 1884

Walton, B. T. 956 Walton, G. A. 2585 Wanchinga, D. M. 410 Wang, B. T. 2803 Wang, C. S. 1214, 2639, 2640, 2916, 2917 Wang, D. C. 2344 Wang, D. Q. 2655 Wang, D. Q. 2655
Wang, R. L. 1081
Wang, S. X. 328, 1037
Ward, R. A. 2402
Ward, R. D. 2812
Ward, R. M. 3192
Warnecke, M. 1197, 2627
Warner, J. O. 422
Warren, G. H. 3166
Warren-Hicks, W. J. 2341
Warren, M. 1595, 1596
Washburn, J. 1853
Washino, R. K. 90, 93, 101, 102, 103, 1865, 1866, 1877, 1883, 2483, 2761
Wassal, M. E. 1424
Wassef, H. Y. 1181, 2577
Wassink, H. J. M. 1117
Wasti, S. S. 3142
Watanabe, M. 890
Waterhouse, D. F. 2310
Watson, W. M. 2887
Watt, J. C. 1260
Wattal, B. L. 183, 2383, 2384, 3102
Water I. F. 893 Wang, R. L. 1081 3102
Watts, J. E. 893
Watts, T. 791
Way, M. J. 2311
Way, M. O. 100, 185Wazir, Y. 2450
Webb, J. P., Jr. 2212
Webb, P. 990
Webber, L. A. 2259
Webber, R. H. 2113
Weegar, H. H. 152
Wegner, E. 832
Wegner, Z. 55
Wehmeyer, H. 2066 3102 100, 1854 Wegner, E. 832
Wegner, Z. 55
Wehmeyer, H. 2066
Wehrhahn, C. 1687, 1962
Wei, S. F. 1033
Weichel, D. 2012
Weidhaas, D. E. 866, 1735
Weiland, G. 729
Weiler, J. 1366
Weinstein, L. 250
Welch, A. B. 2380
Welch, H. E. 2894
Wellinga, K. 295, 1227
Wellington, W. G. 140
Welton, J. S. 2817
Wentworth, S. L. 869
Wescott, R. B. 2248
Westenberg, H. 403
Westerdahl, B. B. 1865
Western Australia, Department of Agriculture 38 of Agriculture 38 of Agriculture 38
Westin, J. 1523
Wettengl, U. 2237
Wetzel, H. 729
Wharton, G. W. 1785, 1974
Wharton, R. A. 1724
Wharton, R. H. 261, 1201, 2296 Weeler, C. E., Jr. 2929 Whisler, H. C. 2428 Whitaker, J. O., Jr. 57, 1256, 1424, 1447, 1527, 1800, 2232, 2643 2232, 2643
Whitcomb, R. F. 3189
White, B. N. 396
White, G. B. 830, 1362, 2452
White, K. D. 1314
White, P. C., Jr. 3032
White, P. C., Jr. 3032
White, R. J. 2394
White, R. J. 2394
Whitehad, G. B. 2579
Whitfield, P. J. 475
Whitlaw, J. T. 21
Whitlaw, J. T. 21
Whitlaw, J. T., Jr. 3024
Whiten, C. J. 1399, 3146
Whitten, M. J. 2269, 2883
Whitworth, B. T. 115
Wicklow, D. T. 2989 Wicklow, D. T. 2989

Wiedenmann, G. 485 Wiedermann, G. 463 Wiener, S. 1459 Wieten, M. 1502 Wiger, R. 249, 538, 787 Wigglesworth, V. B. 997, 1280 Wikel, S. K. 408, 1433, 1438, 2224 Wilewska-Kłubo, T. 1516
Wilkes, R. J. 135
Wilkes, R. J. 155, 335, 2737
Wilkes, R. F. 1258
Wilkie, B. N. 2652
Wilkie, B. N. 2652
Wilkie, J. S. 627, 1810
Wilkinson, A. 1122
Wilkinson, P. R. 2547, 2556
Willadsen, P. 2587
Willi, U. Riesen- 876
Williams, D. D. 2894
Williams, D. D. 2894
Williams, D. F. 219, 1969
Williams, G. M. 1291
Williams, J. M. 2180
Williams, J. M. 2180
Williams, R. L. 1167
Williams, R. E. 1615
Williams, R. E. 1615
Williams, R. H. 683
Williams, W. R. Bransby- 791, 1656 Wilewska-Kłubo, T. 1516 1656 1656
Willomitzer, J. 898
Wilschut, J. C. 403
Wilson, A. J. 2601
Wilson, G. I. 1218
Wilson, N. 770, 1530, 2207
Wilson, N. L. 630
Wilson, R. G. 1, 618, 619
Wilson, V. C. L. C. 46
Wilton, D. P. 74
Windmill, D. M. 3178
Wink, M. 1377, 1388
Winkelmann, R. K. 676 Wink, M. 137/, 1388 Winkelmann, R. K. 676 Winkhardt, H. J. 2228 Winshall, R. 3116 Wirth, W. W. 603, 2442 Witt, P. L. 386 Wittmer, W. 1232 Wohlrab, H. 613 Wojtanowski, I. 1516 Wojf, C. A. 2352 Wolf, W. 1243, 1252, 1253, 1254 1254
Wolff, H. 1775
Womeldorf, D. J. 84, 2392
Wong, C. C. 2921
Wong, C. F. 522, 2790
Wong, F. C. 813
Wong, Y. W. 137, 2127
Wood, D. E. 2369
Wood, E. 1541, 2079
Wood, F. D. 2705
Wood, F. D. 2705
Wood, F. E., Jr. 2170, 2171
Wood, R. J. 776, 1562, 1563
Wood, S. F. 66, 2705
Woodall, J. P. 1345, 1643, 2968 Woodall, J. P. 1345, 1643, 2968
Woodford, P. J. 2567
Woodruff, R. E. 244
Woods, C. W. 1700
Woods, D. R. 2180
Woodward, W. E. 1128, 1129
World Health Organization 979, 1230, 1505, 2674
Worthing, C. R. 2032
Wotton, R. S. 1664, 3125
Wraight, S. P. 1830
Wraith, D. G. 1207, 2650
Wrensch, M. 797
Wright, A. I. 2512
Wright, B. 1816
Wright, C. G. 1003
Wright, F. C. 433, 668, 3229
Wright, J. D. 1634, 2803
Wu, H. Y. 1035, 1036
Wu, Y. X. 1212
Wüest, J. 998
Wurtsbaugh, W. A. 2484
Withrich R. 3182 2968 Wiest, J. 998 Wurtsbaugh, W. A. 2484 Wüthrich, B. 3182 Wygodzinsky, P. 1276 Wyler, R. 412 Wynne-Jones, N. 2930 Wypych, J. I. 241 Wysoki, M. 2213 Wyss, S. 3182 Xie B. 0 1034 Xie, B. Q. 1034

Xu, R. M. 1148 Yadgiri, B. 704 Yagodin, S. V. 3010 Yagofarov, F. F. 2236 Yahel-Niv, A. 1222 Yahya, G. M. 3236 Yakovleva, T. V. 1744 Yakunin, B. M. 767, 1023 Yakunin, B. M. 767, 102 Yakushkina, V. M. 2454 Yamaguti, S. 2100 Yamamoto, H. 3072 Yamamoto, K. 546 Yamamoto, S. 2633 Yamamura, S. 2064 Yamane, S. 243, 1174, 2193 Yamane, Sk. 1174 Yamasaki, T. 2906 Yamov, V. Z. 1124, 1125 Yamura, T. 2633 Yamura, T. 2633 Yan, Shyue-Liage 174 Yang, G. R. 1212, 1213 Yang, X. D. 1545, 2913 Yang, Y. J. 187 Yap, H. H. 508, 2378, 3034 Yap, K. H. 2378 Yap, S. 2806 Van Sione, 2806 Yap Siong 2806 Yarbrough, J. D. Yap Stong 2806
Yarbrough, J. D. 702
Yasuda, S. 692
Yasuno, M. 1890, 2695, 2870
Yasutomi, K. 692
Yatagai, M. 1040
Yates, M. 2118
Yates, M. G. 1565
Yates, T. L. 1814
Yeates, R. A. 1067
Yebakima, A. 842, 2782
Yeller, R. M. 122
Yerex, D. 37
Yman, L. 2542, 3185
Yoshida, M. 1043, 3073
Yoshida, T. 1986
Yoshikawa, M. 1794, 2632
Yoshimoto, M. 431
Yoshinota, M. 699, 701, 1465 Yoshikawa, M. 1794, 2632
Yoshimoto, M. 431
Yoshimoto, M. 431
Yoshioka, H. 699, 701, 1465
Younce, L. C. 107, 108, 1863
Young, S. S. Y. 1922
Young, S. S. Y. 1922
Younger, R. L. 865
Yousten, A. A. 1088
Yu, H. S. 339, 2357
Yu, S. J. 2507, 2508
Yu, X. 2344
Yu, Z. Z. 1212, 1213, 2913
Yuill, T. M. 1072, 1368
Yun, Y. H. 339
Yunginger, J. W. 634
Yunker, C. E. 2622, 2974, 2977
Yura, Y. 430, 431
Yurchenko, V. V. 2672
Zaagman, W. H. 1686
Zabža, A. 1231
Zacharuk, R. Y. 2298
Zagroba, V. I. 248
Zahaf, A. 2635
Zahar, A. R. 2451
Zaim, M. 160, 1335
Zainiev, S. A. 2106
Zaitz, C. 1544 Zaĭniev, S. A. Zaitz, C. 1544 Zaka-ur-Rab, M. 2167 Zakaryan, V. A. 2000, 2586, Zakharchenko, O. V. 121, 800 Zakharova, N. F. 1041, 2387 Zakolodkina, V. I. 1225 Zalom, F. G. 100, 1854, 2804 Załucki, A. 1806 Zaman, V. 2985 3090 Zambia, Department of Veterinary and Tsetse Control Services 2461, 2462 Zanini, S. 1677 Zapatero, L. M. 1479, 1488, 1494 Zapatero Ramos, L. M. 1493 Zárate, L. G. 3023 Zárate, R. 1278 Zárate, R. J. 3023 Zarzără, C. 2529 Zarzour, J. Y. 2921

Review of Applied Ent Zavortink, T. J. 1623, 2764 Zbikowska, M. 1516 Zboray, E. P. 1858 Zebold, S. L. 2428 Zeidi, M. Schah. 1394, 2166 Zeledón, R. 1099 Zeller, B. L. 1283 Zemlyakova, E. G. 2387 Zerba, E. 1541, 2079 Zettl, K. 934 Zhang, H. C. 1215 Zhang, Z. H. 1037 Zhang, Z. Q. 1082 Zhao, S. X. 1215 Zhao, S. X. 1215 Zharov, A. A. 2109 Zhdanov, V. M. 2963 Zhelyazova, M. P. 2164, 2165 Zherikhina, I. I. 184, 2139 Zhidomorova, G. I. 2528 Zhubanazarov, I. Zh. 1846 Zhuk, E. V. 1225 Zhug, Z. H. 328 Zielasko, B. 2658 Zielińska, Z. M. 2033 Zielke, E. 792 Ziemer, H. G. 3123 Zimbabwe Rhodesia, Secretary for Health 980 Zimmerman, R. H. 522, 1831 Zimmerman, R. H. 522, 1846 Zoltova, S. I. 765, 1846 Zoltovak, Z. 1914, 1915 Zoost, T. van 2022 Zoulani, A. 2413 Zschunke, E. 2327 Zubova, G. M. 1225, 2669 Zucchi, H. 2218 Zuluaga, F. N. 1368



SUBJECT INDEX

The subject indexes of the Review of Applied Entomology not only provide for detailed manual searches under a wide variety of headings, but also provide a wide variety of standardised terms for use in computer-assisted searches of the CAB database. The most detailed entries are those under the names of arthropods, but other organisms, countries, chemicals, habitats and general subjects (e.g. Biological control; Irrigation; Light-traps; Pasture management; Reviews) are also used as headings. Index headings are not selected from any one thesaurus, but fairly strict vocabulary control is achieved by careful checking of systematic names of organisms and chemicals, by adhering to CAB standards for pest-control chemicals and pharmaceuticals, and by selecting most other index headings to conform with other CAB abstract journals or with Chemical Abstracts or Index Medicus. All references are to abstract numbers.

Under the names of arthropods there are references to their control, distribution, hosts, natural enemies, taxonomy, vector ability and miscellaneous subjects. Entries for species will be found under the generic name, and there are also inverted names with the specific and subspecific epithets placed first. The names used for arthropods in this index are those used in the abstracts, because these names have all been checked against the card indexes maintained by the Institute. These card indexes are continuously updated to take account of taxonomic revisions, and in cases of difficulty the taxonomists employed by the Institute or by the British Museum (Natural History) are consulted. If two or more names are accepted by the Review for a taxon during one year, each name is entered separately, with a 'see also' cross-reference to other names. Cross-references from names used by authors but not accepted by the Review are given to the currently-accepted names.

Animals other than arthropods are indexed to specific level only, under English common names for the more important domesticated birds and mammals, or under scientific names. At both these types of heading will be found references to the arthropods that affect the animal concerned, to arthropod-transmitted pathogens, and the side-effects of pesticides. Cross-references are given between common names (sometimes inverted) and scientific names.

Plants are indexed under English common names of the more important or familiar crops, or under scientific names down to species level. At both these types of heading will be found references to the arthropods connected with the plants concerned. Cross-references are given between common names (sometimes inverted) and scientific names.

Pathogens of animals other than arthropods are indexed under the name of the pathogen, the scientific name if one is available, or else the English common name. Some entries will also be found at the names of diseases (sometimes inverted). Viruses pathogenic for arthropods are indexed under the name of the host, and the hosts are listed at the heading 'Viruses and virus diseases'. Other pathogens of arthropods are indexed under the scientific name of the pathogen. As an aid to locating all the information concerning annelids, bacteria, cnidarians, fungi, helminths, molluscs and protozoans, an entry has been made for each relevant abstract at the name of either a phylum or a class.

Geographical locations are keyworded, as appropriate, to faunal regions, continents, countries, archipelagoes or islands, and (for Australia, Canada and the USA) to States, Provinces or Territories. The subheadings refer mainly to pest arthropods, with some references to pest control and diseases.

Chemicals are normally indexed under either a common name or a systematic name, but a few unidentified or complex substances are indexed under names used by authors. The majority of the common names used for chemicals for the control of arthropod pests are listed on pp. 7-10 of RAE volume 68, and in addition, other common names stated in the 6th. edition of the Pesticide Manual (noticed in RAE/B 68, 2032) to have been adopted by BSI, ISO or ANSI are now used. Common names of herbicides and plant growth regulators listed in recent issues of Weed Abstracts are now used in RAE, and so are the common names of other pesticides (including anthelmintics, fungicides and rodenticides) given in the Pesticide Manual. International Nonproprietary Names approved by the World Health Organization are also now used in RAE. Most substances without approved common names are indexed under the names used in the indexes of Chemical Abstracts volumes 86-95. Cross-references are provided to these inverted systematic names, and in some cases synonyms are given with the entries. Cross-references are also provided from inverted systematic names to many of the common names, and definitions are printed at these headings.

Medical, immunological and veterinary headings are normally selected from Medical Subject Headings.

Habitat headings are chosen, whenever possible, beginning with the name of a vertebrate (e.g. Cattle housing; Pig housing) or of a crop (e.g. Coffee plantations, Rice-fields), though most appropriate stands of trees are indexed under 'Forests' or 'Woodland'. In most other cases, inverted names are selected as headings (e.g. Lakes, recreational; Marshland, brackish; Pastures, irrigated). Subheadings are mostly concerned with the distribution of arthropods and the non-target effects of pest control.

Acinetobacter calcoaceticus, in, Triatoma

452

1851

2962

infestans excreta 2704 Ackertia globulosa

SUBJECT INDEX

on Vespertilio superans, in Japan 2644

Acanthophthirius vespertilionis contd.

acanthopus, Hoplopleura

| A-23187, in Amblyomma americanum, not |
|--|
| inducing salivation 1757 |
| Abadina virus, in, Culicoides spp., in Nigeria |
| 857 |
| Abate (see Temephos) Abathion (see Temephos) |
| Abattoirs, fly control in 1141 |
| abnorma, Ophthalmopsylla volgensis (see O. |
| v. volgensis) |
| Abortion, in cattle, role of Ornithodoros |
| coriaceus in 1437 |
| ABS (polymer) (see 2-Propenenitrile, polymer with 1,3-butadiene and |
| ethenylbenzene) |
| abserratus, Aedes |
| acadica, Vespula |
| acanthina, Neopsylla Acanthocephala, Moniliformis dubius 475, |
| 1266 |
| Acanthocyclops vernalis |
| Coelomomyces psorophorae in 354, 2428 |
| C. punctatus in 2802 in USA 2485 |
| preyed on by, Chaoborus astictopus, in |
| California 2485 |
| preying on |
| Chaoborus astictopus, in California 2485 |
| Romanomermis culicivorax 106 |
| Spirometra mansonoides in, infectivity of, |
| genetics of 1817 |
| Acanthocyclops viridis, Coelomomyces iliensis in 773 |
| |
| Acanthophthirius, keys to 673 Acanthophthirius hosonoi |
| sp. nov., description of 2644 |
| in Japan 2644 on <i>Myotis hosonoi</i> , in Japan 2644 |
| Acanthophthirius iriei |
| sp. nov., description of 2644 |
| in Japan 2644 |
| on Myotis macrodactylus, in Japan 2644 Acanthophthirius luzonensis septentrionalis |
| ssp. nov., description of 2644 |
| in Japan 2644 |
| on Pipistrellus abramus, in Japan 2644 |
| Acanthophthirius murinus sp. nov., description of 2644 |
| in Japan 2644 |
| on Murina aurata, in Japan 2644 |
| Acanthophthirius paranoctulius sp. nov., description of 1450 |
| |
| in Switzerland 1450 |
| in Switzerland 1450 on Nyctalus lasiopterus, in Switzerland |
| on <i>Nyctalus lasiopterus</i> , in Switzerland 1450 |
| on Nyctalus lasiopterus, in Switzerland 1450 on Nyctalus noctula, in Switzerland |
| on Nyctalus lasiopterus, in Switzerland 1450 on Nyctalus noctula, in Switzerland 1450 |
| on Nyctalus lasiopterus, in Switzerland 1450 on Nyctalus noctula, in Switzerland 1450 Acanthophthirius plecotius |
| on Nyctalus lasiopterus, in Switzerland 1450 on Nyctalus noctula, in Switzerland 1450 Acanthophthirius plecotius in Japan 2644 on Plecotus auritus, in Japan 2644 |
| on Nyctalus lasiopterus, in Switzerland 1450 on Nyctalus noctula, in Switzerland 1450 Acanthophthirius plecotius in Japan 2644 on Plecotus auritus, in Japan 2644 Acanthophthirius polonicus |
| on Nyctalus lasiopterus, in Switzerland 1450 on Nyctalus noctula, in Switzerland 1450 Acanthophthirius plecotius in Japan 2644 on Plecotus auritus, in Japan 2644 Acanthophthirius polonicus sp. nov., description of 1784 |
| on Nyctalus lasiopterus, in Switzerland 1450 on Nyctalus noctula, in Switzerland 1450 Acanthophthirius plecotius in Japan 2644 on Plecotus auritus, in Japan 2644 Acanthophthirius polonicus sp. nov., description of 1784 in Poland 1784 |
| on Nyctalus lasiopterus, in Switzerland 1450 on Nyctalus noctula, in Switzerland 1450 Acanthophthirius plecotius in Japan 2644 on Plecotus auritus, in Japan 2644 Acanthophthirius polonicus sp. nov., description of 1784 in Poland 1784 on bat, in Poland 1784 Acanthophthirius scotophili |
| on Nyctalus lasiopterus, in Switzerland 1450 on Nyctalus noctula, in Switzerland 1450 Acanthophthirius plecotius in Japan 2644 on Plecotus auritus, in Japan 2644 Acanthophthirius polonicus sp. nov., description of 1784 in Poland 1784 on bat, in Poland 1784 Acanthophthirius scotophili sp. nov., description of 1773 |
| on Nyctalus lasiopterus, in Switzerland 1450 on Nyctalus noctula, in Switzerland 1450 Acanthophthirius plecotius in Japan 2644 on Plecotus auritus, in Japan 2644 Acanthophthirius polonicus sp. nov., description of 1784 in Poland 1784 on bat, in Poland 1784 Acanthophthirius scotophili sp. nov., description of 1773 in Thailand 1773 |
| on Nyctalus lasiopterus, in Switzerland 1450 on Nyctalus noctula, in Switzerland 1450 Acanthophthirius plecotius in Japan 2644 on Plecotus auritus, in Japan 2644 Acanthophthirius polonicus sp. nov., description of 1784 in Poland 1784 on bat, in Poland 1784 Acanthophthirius scotophili sp. nov., description of 1773 in Thailand 1773 on Scotophilus kuhlii, in Thailand 1773 |
| on Nyctalus lasiopterus, in Switzerland 1450 on Nyctalus noctula, in Switzerland 1450 Acanthophthirius plecotius in Japan 2644 on Plecotus auritus, in Japan 2644 Acanthophthirius polonicus sp. nov., description of 1784 in Poland 1784 on bat, in Poland 1784 Acanthophthirius scotophili sp. nov., description of 1773 in Thailand 1773 on Scotophilus kuhlii, in Thailand 1773 Acanthophthirius serotinus sp. nov., description of 1784 |
| on Nyctalus lasiopterus, in Switzerland 1450 on Nyctalus noctula, in Switzerland 1450 Acanthophthirius plecotius in Japan 2644 on Plecotus auritus, in Japan 2644 Acanthophthirius polonicus sp. nov., description of 1784 in Poland 1784 on bat, in Poland 1784 Acanthophthirius scotophili sp. nov., description of 1773 in Thailand 1773 on Scotophilus kuhlii, in Thailand 1773 Acanthophthirius serotinus sp. nov., description of 1784 in Poland 1784 |
| on Nyctalus lasiopterus, in Switzerland 1450 on Nyctalus noctula, in Switzerland 1450 Acanthophthirius plecotius in Japan 2644 on Plecotus auritus, in Japan 2644 Acanthophthirius polonicus sp. nov., description of 1784 in Poland 1784 on bat, in Poland 1784 Acanthophthirius scotophili sp. nov., description of 1773 in Thailand 1773 on Scotophilus kuhlii, in Thailand 1773 Acanthophthirius serotinus sp. nov., description of 1784 in Poland 1784 on bat, in Poland 1784 |
| on Nyctalus lasiopterus, in Switzerland 1450 on Nyctalus noctula, in Switzerland 1450 Acanthophthirius plecotius in Japan 2644 on Plecotus auritus, in Japan 2644 Acanthophthirius polonicus sp. nov., description of 1784 in Poland 1784 on bat, in Poland 1784 Acanthophthirius scotophili sp. nov., description of 1773 in Thailand 1773 on Scotophilus kuhlii, in Thailand 1773 Acanthophthirius serotinus sp. nov., description of 1784 in Poland 1784 on bat, in Poland 1784 Acanthophthirius silesiacus |
| on Nyctalus lasiopterus, in Switzerland 1450 on Nyctalus noctula, in Switzerland 1450 Acanthophthirius plecotius in Japan 2644 on Plecotus auritus, in Japan 2644 Acanthophthirius polonicus sp. nov., description of 1784 in Poland 1784 on bat, in Poland 1784 Acanthophthirius scotophili sp. nov., description of 1773 in Thailand 1773 on Scotophilus kuhlii, in Thailand 1773 Acanthophthirius serotinus sp. nov., description of 1784 in Poland 1784 on bat, in Poland 1784 Acanthophthirius silesiacus sp. nov., description of 1784 in Poland 1784 Acanthophthirius silesiacus sp. nov., description of 1784 in Poland 1784 |
| on Nyctalus lasiopterus, in Switzerland 1450 on Nyctalus noctula, in Switzerland 1450 Acanthophthirius plecotius in Japan 2644 on Plecotus auritus, in Japan 2644 Acanthophthirius polonicus sp. nov., description of 1784 in Poland 1784 on bat, in Poland 1784 Acanthophthirius scotophili sp. nov., description of 1773 in Thailand 1773 on Scotophilus kuhlii, in Thailand 1773 Acanthophthirius serotinus sp. nov., description of 1784 in Poland 1784 on bat, in Poland 1784 Acanthophthirius silesiacus sp. nov., description of 1784 in Poland 1784 on bat, in Poland 1784 |
| on Nyctalus lasiopterus, in Switzerland 1450 on Nyctalus noctula, in Switzerland 1450 Acanthophthirius plecotius in Japan 2644 on Plecotus auritus, in Japan 2644 Acanthophthirius polonicus sp. nov., description of 1784 in Poland 1784 on bat, in Poland 1784 Acanthophthirius scotophili sp. nov., description of 1773 in Thailand 1773 on Scotophilus kuhlii, in Thailand 1773 Acanthophthirius serotinus sp. nov., description of 1784 in Poland 1784 On bat, in Poland 1784 Acanthophthirius silesiacus sp. nov., description of 1784 in Poland 1784 On bat, in Poland 1784 Acanthophthirius silesiacus sp. nov., description of 1784 in Poland 1784 On bat, in Poland 1784 Acanthophthirius simplex |
| on Nyctalus lasiopterus, in Switzerland 1450 on Nyctalus noctula, in Switzerland 1450 Acanthophthirius plecotius in Japan 2644 on Plecotus auritus, in Japan 2644 Acanthophthirius polonicus sp. nov., description of 1784 in Poland 1784 on bat, in Poland 1784 Acanthophthirius scotophili sp. nov., description of 1773 in Thailand 1773 on Scotophilus kuhlii, in Thailand 1773 Acanthophthirius serotinus sp. nov., description of 1784 in Poland 1784 on bat, in Poland 1784 Acanthophthirius silesiacus sp. nov., description of 1784 in Poland 1784 On bat, in Poland 1784 Acanthophthirius silesiacus sp. nov., description of 1784 in Poland 1784 On bat, in Poland 1784 Acanthophthirius simplex sp. nov., description of 2644 |
| on Nyctalus lasiopterus, in Switzerland 1450 on Nyctalus noctula, in Switzerland 1450 Acanthophthirius plecotius in Japan 2644 on Plecotus auritus, in Japan 2644 Acanthophthirius polonicus sp. nov., description of 1784 in Poland 1784 on bat, in Poland 1784 Acanthophthirius scotophili sp. nov., description of 1773 in Thailand 1773 on Scotophilus kuhlii, in Thailand 1773 Acanthophthirius serotinus sp. nov., description of 1784 in Poland 1784 on bat, in Poland 1784 Acanthophthirius silesiacus sp. nov., description of 1784 in Poland 1784 on bat, in Poland 1784 Acanthophthirius silesiacus sp. nov., description of 1784 in Poland 1784 Acanthophthirius silesiacus sp. nov., description of 2644 in Japan 2644 on Myotis nattereri, in Japan 2644 |
| on Nyctalus lasiopterus, in Switzerland 1450 on Nyctalus noctula, in Switzerland 1450 Acanthophthirius plecotius in Japan 2644 on Plecotus auritus, in Japan 2644 Acanthophthirius polonicus sp. nov., description of 1784 in Poland 1784 on bat, in Poland 1784 Acanthophthirius scotophili sp. nov., description of 1773 in Thailand 1773 on Scotophilus kuhlii, in Thailand 1773 Acanthophthirius serotinus sp. nov., description of 1784 in Poland 1784 on bat, in Poland 1784 Acanthophthirius silesiacus sp. nov., description of 1784 in Poland 1784 Acanthophthirius simplex sp. nov., description of 2644 in Japan 2644 on Myotis nattereri, in Japan 2644 Acanthophthirius spinipes |
| on Nyctalus lasiopterus, in Switzerland 1450 on Nyctalus noctula, in Switzerland 1450 Acanthophthirius plecotius in Japan 2644 on Plecotus auritus, in Japan 2644 Acanthophthirius polonicus sp. nov., description of 1784 in Poland 1784 on bat, in Poland 1784 Acanthophthirius scotophili sp. nov., description of 1773 in Thailand 1773 on Scotophilus kuhlii, in Thailand 1773 Acanthophthirius serotinus sp. nov., description of 1784 in Poland 1784 on bat, in Poland 1784 Acanthophthirius silesiacus sp. nov., description of 1784 in Poland 1784 on bat, in Poland 1784 Acanthophthirius silesiacus sp. nov., description of 1784 in Poland 1784 On bat, in Poland 1784 Acanthophthirius silesiacus sp. nov., description of 2644 in Japan 2644 On Myotis nattereri, in Japan 2644 Acanthophthirius spinipes in Japan 2644 |
| on Nyctalus lasiopterus, in Switzerland 1450 on Nyctalus noctula, in Switzerland 1450 Acanthophthirius plecotius in Japan 2644 on Plecotus auritus, in Japan 2644 Acanthophthirius polonicus sp. nov., description of 1784 in Poland 1784 on bat, in Poland 1784 Acanthophthirius scotophili sp. nov., description of 1773 in Thailand 1773 on Scotophilus kuhlii, in Thailand 1773 Acanthophthirius serotinus sp. nov., description of 1784 in Poland 1784 on bat, in Poland 1784 Acanthophthirius silesiacus sp. nov., description of 1784 in Poland 1784 Acanthophthirius silesiacus sp. nov., description of 1784 in Poland 1784 Acanthophthirius silesiacus sp. nov., description of 2644 in Japan 2644 on Myotis nattereri, in Japan 2644 Acanthophthirius spinipes in Japan 2644 on Myotis macrodactylus, in Japan 2644 |
| on Nyctalus lasiopterus, in Switzerland 1450 on Nyctalus noctula, in Switzerland 1450 Acanthophthirius plecotius in Japan 2644 on Plecotus auritus, in Japan 2644 Acanthophthirius polonicus sp. nov., description of 1784 in Poland 1784 on bat, in Poland 1784 Acanthophthirius scotophili sp. nov., description of 1773 in Thailand 1773 on Scotophilus kuhlii, in Thailand 1773 Acanthophthirius serotinus sp. nov., description of 1784 in Poland 1784 on bat, in Poland 1784 Acanthophthirius silesiacus sp. nov., description of 1784 in Poland 1784 on bat, in Poland 1784 Acanthophthirius silesiacus sp. nov., description of 1784 in Poland 1784 Acanthophthirius silesiacus sp. nov., description of 2644 in Japan 2644 on Myotis nattereri, in Japan 2644 Acanthophthirius spinipes in Japan 2644 on Myotis macrodactylus, in Japan 2644 Acanthophthirius sudeticus sp. nov., description of 1784 |
| on Nyctalus lasiopterus, in Switzerland 1450 Acanthophthirius plecotius in Japan 2644 on Plecotus auritus, in Japan 2644 Acanthophthirius polonicus sp. nov., description of 1784 in Poland 1784 on bat, in Poland 1784 Acanthophthirius scotophili sp. nov., description of 1773 in Thailand 1773 on Scotophilus kuhlii, in Thailand 1773 Acanthophthirius serotinus sp. nov., description of 1784 in Poland 1784 on bat, in Poland 1784 Acanthophthirius silesiacus sp. nov., description of 1784 in Poland 1784 Acanthophthirius silesiacus sp. nov., description of 1784 in Poland 1784 Acanthophthirius silesiacus sp. nov., description of 2644 in Japan 2644 on Myotis nattereri, in Japan 2644 Acanthophthirius spinipes in Japan 2644 on Myotis macrodactylus, in Japan 2644 Acanthophthirius sudeticus sp. nov., description of 1784 in Poland 1784 |
| on Nyctalus lasiopterus, in Switzerland 1450 on Nyctalus noctula, in Switzerland 1450 Acanthophthirius plecotius in Japan 2644 on Plecotus auritus, in Japan 2644 Acanthophthirius polonicus sp. nov., description of 1784 in Poland 1784 on bat, in Poland 1784 Acanthophthirius scotophili sp. nov., description of 1773 in Thailand 1773 on Scotophilus kuhlii, in Thailand 1773 Acanthophthirius serotinus sp. nov., description of 1784 in Poland 1784 on bat, in Poland 1784 Acanthophthirius silesiacus sp. nov., description of 1784 in Poland 1784 on bat, in Poland 1784 Acanthophthirius silesiacus sp. nov., description of 1784 in Poland 1784 Acanthophthirius silesiacus sp. nov., description of 2644 in Japan 2644 on Myotis nattereri, in Japan 2644 Acanthophthirius spinipes in Japan 2644 on Myotis macrodactylus, in Japan 2644 Acanthophthirius sudeticus sp. nov., description of 1784 |

in Japan 2644

control of, non-acaricidal chemicals for Haemaphysalis leachii development of 1749 in bat guano, in New Hampshire 1820 on bats, in Poland 2642 transmission of 1749 Lemniscomys striatus, in Kenya 1749 on game, book 2261 aconitus, Anopheles on small mammals acraea, Estigmene in Hungary 1745 in Poland 1497, 1498 Acaricide resistance 428 Acrex (see Dinobuton) Acrididae in Fennoscandia 51 in carrion, in USA tick management as affected by 2545 Acaricides book 2032 Actias artemis xenia in Japan 710 sales of, in Finland 3243 substances tested as: on man, effects of 710 Actinomycin D (see Dactinomycin) alkylamines 1218 actoni, Culicoides benzospiro pyrethroids 1467 Acuaria spiralis O-(1,5-disubstituted-6-oxo-1H-pyridazin-4-yl) phosphorothioates 426 miscellaneous compounds 266 fowl, infectivity of 2663 Porcellio laevis, infectivity of 2663 organophosphates 1461 Acugutturus parasiticus 2-perfluoroalkylbenzimidazoles 3245 gen. et sp. nov., description of 3003 plant extracts 246 synonyms of 954 tests of 732, 733, 734 in, Periplaneta americana, in St. Lucia 3003 acuscutellaris, Blankaartia Acaridae acutitarsus, Íxodes in house dust Adenosine in Brazil 1453 in Ohio 1794 Simulium venustum feeding responses to Acarus siro cyclic 3',5'-(hydrogen phosphate) in UK 2650 in Amblyomma americanum on man, hypersensitivity to 2650 effects on salivation of 1978 Acca sellowiana, repellent activity of extracts of 246
Acephate (O,S-dimethyl acetylphosphoramidothioate) role in salivation of 1757, 1981 in Musca domestica effects on pupation of 1416 not affecting secretion by Malpighian tubules 3178 against, Blattella germanica, in dwellings 1003 in Periplaneta americana fat-body effects of octopamine on 2699 resistance to, in, Musca domestica, development of 3177 Simulium venustum feeding responses to 1667 Adenosine 5'-(tetrahydrogen triphosphate) Acer, Tabanidae on, in Connecticut 387 Acetamide, 2-(diethylamino)-N-(2,6dimethylphenyl)- (see Lidocaine)
Acetamide, N,N-diethyl-2-phenoxy-, in
mouse, not mutagenic 2672
Acetamide, N-dodecyl-2-fluoro-, against, diet component for Tabanus nigrovittatus 1166
Xenopsylla spp. 1281
in Culex quinquefasciatus, dependence of choline kinase activity on 342
in Culex quinquefasciatus diet, Solenopsis invicta 1969 Acetic acid in fly attractants 2876 phagostimulant activity of repellent for, ovipositing Culex spp. 97 Simulium venustum feeding responses to Acetic acid, (4-chloro-2-methylphenoxy)-1667 (see MCPA)
Acetic acid, [2,3-dichloro-4-(2-methylene-1-oxobutyl)phenoxy]- (see Etacrynic acid) Adenosine 5'-(trihydrogen diphosphate) in Culex quinquefasciatus, inhibiting choline kinase 342 Acetic acid, fluoro-, against, Solenopsis invicta 1969 Acetic acid, iodo-, in Musca domestica, Simulium venustum feeding responses to 1667 5'-Adenylic acid inhibiting secretion by Malpighian tubules 3178 in Culex quinquefasciatus diet, phagostimulant activity of 1554 Acetone (see 2-Propanone) Simulium venustum feeding responses to Acetylcholinesterase (see Esterase, acetyl 1667 in Culex pipiens diet, requirement for Acetylesterase (see Esterase, acetyl) 133 5'-Adenylic acid, 2'-deoxy-, in Culex pipiens diet, poor replacement for adenylic acid Acetylglucosaminidase, in Stomoxys calcitrans pupae 1714 Acetylglucosaminyltransferase, chitin-uridine 133 ADP (see Adenosine 5'-(trihydrogen diphosphate in Musca domestica diphosphate)) insect growth regulators as inhibitors of 383 advenarius, Ceratophyllus (see Megabothris advenarius) polyoxin D as inhibitor of 383 advenarius, Megabothris (Ceratophyllus) Achatina fulica shells, Eretmapodites spp. Aedes in, in Kenya 3058 arboviruses in Acheta domesticus in California in Nigeria 533 bacteria in, in East Germany 1832 Dolichovespula maculata venom in, toxicity of 2195 California encephalitis virus in fungi in, in East Germany 1832 in Canada in East Germany 1832 in grocery shops, in East Germany 1832 in New York 147 California viruses in insecticides in, effects on melanisation of transmission of 826 transovarial transmission of 2969 2062 Coelomomyces spp. in, in Thailand 1607 Achillea millefolium Aedes spp. on, nectar feeding by 1574 insecticidal activity of extracts of 2790 Tabanidae on, in Connecticut 387 control of biological 1873 2790 insecticides for 529, 971, 1225, 1610, Acid phosphatase (see Phosphatase, acid)

Aedes contd. control of contd. lecithin monolayers for 469 development in 1601 egg-hatch in, effects of dissolved oxygen on 524 feeding behaviour in 1826 genetics of, electrophoretic techniques for studying 143 hygienic importance of 458 identifying of, review 830 in Amami Islands 713 in American Samoa 1634 in Congo 2739 in Congo 2/39
in Dominican Republic
in Fennoscandia 1086
in Finland 1916
in France 177 2086 in Indonesia 2090 in Malagasy Republic 2408 in Manitoba 795 in Manitoba 795 in Maritime Provinces 1617 in New York 2800 in Ryukyu Islands 713 in Switzerland 2751 in USSR 9 in West Germany 458 in conservation areas, in California 18 in irrigated pastures, in California 96 in rivers, in Spain 1499 1873 in woodland, in Minnesota light responses in 541 mating in 169 on man on man
in Italy 969, 971
in Nigeria 3043
Tahyňa virus in, in Italy 2967
tissue cultures from 2299
traps for 541
Wolbachieae in, in Tonga 2803
Wuchereria bancrofti in, transmission of yellow fever, virus in, in Senegal 166 Aedes abserratus in USA 1897 Jamestown Canyon virus in, in Connecticut 1897 Aedes aegypti accessory glands in, proteins in secretion of 121 alarm reaction in, recovery time from 1922 allergens of 546 antigens of 14 arboviruses in in Senegal 2780 transmission of 1323 Ascocystis culicis in, pathogenicity of 1092 attractants for 1624 attractants for 1624
in human emanations 1879
Bacillus spp. in, pathogenicity of 536
B. alvei in, pathogenicity of 2769
B. brevis in, pathogenicity of 2769
bacteria in, in Thailand 1606
Beauveria tenella in, not infective 2772 blood-feeding in, insemination not involved in regulation of 132 blood-meals in digestion of 1652 hormonal regulation of retention of utilisation of 1628 breeding places of 334, 1053, 3045, 3169 Brugia spp. in, development of exsheathed microfilariae of 345 B. malayi in damage to 2371 infectivity of 3078 transmission of 792 B. pahangi in development of, effects of diet on 16 effects on enzymes of 1051 effects on methonine synthesis of 17 not affecting thymidylate synthase 2419 stimulating methionine synthetase 1571 transmission of cell cultures from 2976 chemosterilants in, toxicity of 127 chikungunya virus in, transmission of 1323

Aedes aegypti contd. chromosomes in 179 linkage map for 2410 competing with, *Aedes bahamensis* 2095 control of 1060, 1344, 1345, 1348, 2034, 2782. 3080 antifeedants for 1655, 1805 biological 536, 1063, 1346, 2750, 2784, 3066 destroying breeding places for 1063 genetic 1063 genetic 1063 growth regulators for 508, 800, 1063, 1231, 1346, 1624, 1889 insecticides for 295, 296, 695, 801, 1059, 1063, 1079, 1227, 1320, 1346, 1562, 1603, 1805, 1909, 2378, 3061 repellents for 802, 2262, 2741, 2742 review 1059, 1063 proper sulfate in toxicity of 2726 opper sulfate in, toxicity of 2736 DDT resistance in, mechanisms of 1562, 1563 dengue virus in in Nigeria 3044 in Venezuela 1347 infectivity of, strain differences in 1644 transmission of 167, 784, 1084, 1085, 1294 densonucleosis virus in, maturation of 1061 development in development in
effects of temperature on 1925
model 1881, 1925
variability in 2122
diflubenzuron bioassay using 3031
digestive enzymes in 1067, 1609, 1652
permeability of peritrophic membrane
to 1608 2.4-dinitrophenol in, toxicity of 2736 Dipetalonema dessetae in, protein synthesis induced by 2367 synthesis induced by Dirofilaria immitis in, effects of Ascocystis Dirofilaria immitis in, effects of Ascocyst culicis on 1092
distribution of 167, 1851
domestic form of 545, 1356
Ebola virus in, not replicating 990
egg-hatch in 1052
enzymes in 17, 161, 1051, 1318, 1571, 1821, 2419
ethyl methanesulfonate in, effects of 81 Eugregarina in, in Thailand 160 feeding behaviour in 1053, 3043 regulation of 549 fowl plague virus in, replication of 3054 Fusarium oxysporum in, not infective 2772 gut in bacteria in 3098 significance of mixed host blood in 1914, 1915

Helicosporidium spp. in, in Thailand 1606 Ilheus virus in, not pathogenic 2438 in Bahamas 2095 in Brazil 1063, 2034 in Central African Republic 3047 in Colombia 1344, 3077, 3080 in Dominican Republic 1345 in French Polynesia 2784 in French West Indies 2782 in Gambia 135, 3080 in Ghana 3080 in Haiti 1345 in Honduras 1348 in India 1069, 1909 in Indonesia 1084, 1294 in Ivory Coast 1080 in Jamaica 349
in Kenya 545, 1356, 2805
in Malagasy Republic, not found 2408
in Malaysia 1085, 1320, 2378, 3034,
3169 in Nigeria 334, 3043, 3044, 3045 in Panama 2401 in Philippines 823 in Senegal 347, 1052, 1053, 2780, 3080 in Singapore 1063 in Tanzania 1063 in Thailand 1606 in Trinidad and Tobago 2131 in Upper Volta 1079 in USA 1346, 1624

Aedes aegypti contd. in USA (Hawaii), not found 2372 in Venezuela 1060, 1347 in Zaïre 989 in cemeteries, in Louisiana 1346 in dwellings assessing infestations of 3 in Andhra Pradesh 1069 349 in Andhra Pradesh 1069
in Nigeria 3044
in Tamil Nadu 1069
in West Malaysia 1085, 3034
in flower vases, in Martinique 2782
in schools, in West Malaysia 3034
in tyres, in Bahamas 2095
in urban areas, in West Malaysia 10
in water butts, in Martinique 2782
in water containers in water containers in Sabah 1320 in Upper Volta 1079 insect growth regulators in, morphological effects of 1649 Lassa virus in, not replicating 990 life tables for 1091 lipids in, and in Mermithid parasites 2820 Marburg virus in infectivity of 991 replication of 989 mating competitiveness in effects of thiotepa on 789, 1893 evaluation in field of 2723 mating in 1356 meiotic drive in 776 Metarhizium anisopliae in, not infective 2772 methionine in, biosynthesis of 17 methoprene bioassay using 3031 Microsporidia in, in Thailand 1606 mid-gut in, functional morphology of morphological markers for 2276 mosquito iridescent virus in, interactions with X-rays of 2112

Murray Valley encephalitis, virus in, transmission of 1323

nitrogen metabolism in 1628 Nosema algerae in, pathogenicity of on guinea-pig, feeding by 1655 on man hypersensitivity to 54 in Nigeria 334, 3043 Onchocerca cervicalis in, infectivity of 3078 O. gutturosa in, infectivity of O. volvulus in, infectivity of 3078 ovarian development in hormonal regulation of nutrient mediation of 215 oviposition in, genetics of 1299 peritrophic membrane in 1328 phototaxis in 2116 effects of heavy metals on 346 effects of insecticides on plant extracts in, inhibiting pupation 1341 Plasmodium gallinaceum in damage to 1067, 2730 effects of Microsporidia on 1910 population dynamics of 87 predators of, effects of insecticides on 801 preyed on by Eretmapodites subsimplicipes 3058 Toxorhynchites rutilus 781, 1613 proboscipedia mutant of 807 rearing of, techniques for 1661, 2385 Romanomermis nielseni in, rearing of 1304 salivary glands in, non-specific salivary glands in, non-specific immunofluorescent staining of 1557 seasonal abundance of 1053 sex ratio in, distortion of 776 sexual receptivity in, factors governing onset of 3091 sterilisation of, chemosterilants for 81, 127, 789, 1041, 1893, 2387, 2422 strains of 14 sulvan form of 545, 1356

strains of 14 sylvan form of 545, 1356 sympatric forms of 2805 systems analysis of 1925 traps for 164, 1052, 1346, 3034, 3043

| | | 157 |
|--|--|--|
| Aedes aegypti contd. vitellogenesis in | Aedes albopictus contd. temperature-sensitive mutants of 1902 | Aedes caspius contd. mating competitiveness in, effects of |
| hormonal regulation of 2778 | traps for 3034 | chemosterilants on 79 |
| wuchereria bancrofti in, development of | western equine encephalitis, virus in, persistent infection with 1902 | pupae of, effects of γ -irradiation on 526 sterilisation of, chemosterilants for 79 |
| 550 | Wolbachieae in 2803 | Aedes caspius caspius |
| yellow fever virus in | Aedes alcasidi, Wolbachieae in, not found 2803 | Coelomomyces iliensis in, not infective 2377 |
| in Gambia 3080 transmission of 1053, 2734 | Aedes annulipes | in USSR 77, 2102 |
| detecting of 794 | gut in, significance of mixed host blood in 1914 | iridescent virus in, in Ukraine 2102 Issyk-Kul virus in, transmission of 1559 |
| transovarial transmission of 347, 2128 | in Poland 1914 in Switzerland 2751 | Setaria labiatopapillosa in, in Uzbekistan 77 |
| Zika virus in, transmission of 2734 zinc sulfate in, toxicity of 2736 | Aedes argenteopunctatus arboviruses in, in Senegal 2780 | Aedes cataphylla |
| Nedes africanus | in Senegal 2780 | control of, biological 2750 hatching date of 2111 |
| feeding places of 334 feeding behaviour in 2739, 3043 | Aedes atlanticus biology of 142 | in Switzerland 2750, 2751 in USA 516 |
| in Central African Republic 2733, 3047 in Congo 2739 | in USA 142, 1633 in woodland pools, in Texas 142 | in USSR 2111 Aedes chrysolineatus |
| in Ivory Coast 1080, 3080 | taxonomy of, characters distinguishing A. | Eugregarina in, in Thailand 1606 |
| in Nigeria 334, 3043 on man, in Nigeria 334, 3043 | tormentor and 1633 Aedes atropalpus | in Thailand 1606 Aedes churchillensis, in Canada 782 |
| seasonal abundance of 2739 yellow fever | diapause in 1044 in USA 157, 1044 | Aedes cinereus breeding places of 512 |
| virus in in Central African Republic 2733 | in tyres, in Kentucky 157 vitellogenesis in, hormonal regulation of | California encephalitis, virus in, in New |
| in Ivory Coast 3080 | 2778 | York 147 gut in, significance of mixed host blood in |
| group of, yellow fever, virus in, in Central African Republic 347 | group of, taxonomy of 2766 Aedes aurifer | 1914, 1915 in Canada 512 |
| Aedes albopictus Anaplasma marginale in, persistence of | in USA 1897 Keystone virus in, in Connecticut 1897 | in Czechoslovakia 1688 |
| 2415 | Aedes australis, Coelomomyces opifexi in, | in Poland 832, 1914, 1915 in Switzerland 2751 |
| Ascocystis culicis in, in South Korea | development of 785 Aedes bahamensis | in USA 147 in forests, effects of drainage on 832 |
| 2357 bacteria in, in Thailand 1606 | competing with, Aedes aegypti 2095 in Bahamas 2095 | on cattle, in Czechoslovakia 1688 resting places of 2751 |
| biology of 343 | Aedes bancroftianus | Aedes circumluteolus |
| Bunyamwera virus in, replication of | host preferences of 1291 in Australia 1291 | in Gambia 135 in South Africa 135 |
| 2088 cell cultures from, arbovirus replication in | Aedes berlandi in Portugal 2089 | on man, in Gambia 135 Aedes communis |
| 2760 | in Spain 1490 | breeding places of 512 |
| chikungunya virus in infectivity of 1847 | in tree holes, in Spain 1490 Aedes bromeliae | California encephalitis, virus in, transmission of 2962 |
| persistent infection with 2416 cibarium in, sensilla on 2731 | descriptions of 1637 taxonomy of, distinct from A. simpsoni | control of biological 2750 |
| control of | 1637 | growth regulators for 3097 |
| growth regulators for 508 insecticides for 2378 | Aedes caballus in South Africa 341 | hatching date of 2111 in Canada 512, 782, 795, 808 |
| dengue virus in effects of 1650 | Mermithidae in, in South Africa 341 Aedes canadensis | in Finland 1916 in Japan 2740 |
| effects of persistent infection with 344 identifying of 1645 | California encephalitis, virus in, in New York 147 | in Switzerland 2750, 2751 in USA 516 |
| infectivity of 1847 | in USA 147 | in USSR 778, 2111, 3097 |
| localisation of 1904 transmission of 784, 1084, 1085, 1294 | Aedes cantans control of | in forests, in USSR 778 in man-made lakes, in USSR 3097 |
| Ebola virus in, not replicating 990 Eugregarina in, in Thailand 1606 | growth regulators for 800, 2751 insecticides for 803, 1642 | mortality in 778 Murray Valley encephalitis, virus in, |
| feeding behaviour in 542 | non-target effects of 803 | replication of 2962 |
| habitats of 819 Ilheus virus in, pathogenicity of 2438 | in Czechoslovakia 803 in Poland 832 | Northway virus in, replication of 2962 Romanomermis communensis in, in |
| in China 343 in Indonesia 1084, 1294 | in Switzerland 2751 in forests, effects of drainage on 832 | Manitoba 782 snowshoe hare virus in |
| in Japan 819 in Malagasy Republic 2408 | insect growth regulators in, residues of 800 | in Arctic Canada 808 in Manitoba 795 |
| in Malaysia 542, 1085, 1320, 2378, 3034, | group of | group of |
| 3169 in Philippines 823, 1321 | hatching dates of 2111 in forests, in USSR 2386 | California encephalitis, virus in, in New York 147 |
| in South Korea 2357 in Thailand 1606 | Aedes cantator breeding places of 512 | hatching dates of 2111 in forests, in USSR 2386 |
| in USA (Hawaii) 2372 | feeding behaviour in 1574 | Aedes cooki, Wolbachieae in 2803 |
| in dwellings, in West Malaysia 1085, 3034 | in Canada 512 in USA 1574, 1897 | Aedes craggi, in China 1083 Aedes dalzieli |
| in gardens, in West Malaysia 1085 in parks, in West Malaysia 1085 | in salt marshes, in Quebec 512 Jamestown Canyon virus in, in | arboviruses in, in Senegal 2780 in Senegal 2780 |
| in schools, in West Malaysia 3034 in shops, in West Malaysia 3034 | Connecticut 1897 nectar-feeding in 1574 | Aedes dentatus arboviruses in, in Nigeria 334 |
| in suburban areas, in West Malaysia | on man, in Connecticut 1574 | in Nigeria 334 |
| in water containers, in Sabah 1320 | Aedes caspius Coelomomyces iliensis in 773 | Aedes detritus control of |
| Lassa virus in, not replicating 990 nephropathia epidemica, causal agent in, | control of biological 551, 1590 | biological 551 insecticides for 975 |
| not infective 995 | insecticides for 975 | enzymes in 777 |
| on man distribution pattern of 542 | enzymes in 2762 genetics of 777 | in Italy 975 in Portugal 1640 |
| in Japan 819 pharyngeal valves in 2731 | in France 777 in Italy 975, 2762, 2967 | sibling species in 2115 complex of |
| Romanomermis culicivorax in, infectivity of 822 | in Morocco 777 in Portugal 1640 | autogeny in 1342 blood-feeding in 1342 |
| Semliki Forest virus in 539 | in Tunisia 777 | Aedes diantaeus |
| Sindbis virus in, cytopathic effects of 2978 | in USSR 2106 in Yugoslavia 446 | California encephalitis, virus in, in Norway 538 |
| | | |

| Aedes diantaeus contd. | Aedes hendersoni contd. | Aedes nigrinus contd. |
|---|---|---|
| in Finland 1916 | taxonomy of, misidentified as A. | hatching dates of 2111 |
| in Norway 538 | triseriatus, in Manitoba 1316 | in USSR 516, 2111 |
| in USSR 1076 | western equine encephalitis, virus in, | in cattle sheds, in USSR 516 |
| on man, in Belorussia 1076 | transmission of 2394 | taxonomy of, characters distinguishing A |
| Aedes dorsalis | Aedes hexodontus | sticticus and 516 |
| arboviruses in, replication of 1578 | California encephalitis, virus in, in | Aedes nigripes |
| breeding places of 512 | Norway 538 | in Canada 808 |
| control of | in Canada 780, 808 | in USSR 778 |
| | in Finland 1916 | in tundra, in USSR 778 |
| biological 1604, 3066 | in Japan 2740 | |
| insecticides for 1300 | in Norway 538 | mortality in 778 |
| in Canada 512, 2404 | in USSR 778 | Aedes nigromaculis |
| in USA 1300, 3066 | | arboviruses in, in California 1851 |
| in Yugoslavia 446 | in snow pools, in Hokkaido 2740 | control of |
| in salt marshes | in tundra, in USSR 778 | biological 1866, 1872, 3066 |
| in California 3066 | mortality in 778 | eliminating breeding places for 1611 |
| in Quebec 512 | Aedes implicatus | growth regulators for 2744 |
| insecticide resistance in, in Utah 1300 | breeding places of 512 | insecticides for 115, 1300, 1872 |
| | in Canada 512 | in USA 96, 115, 1248, 1300, 1611, 185 |
| Mermithidae in, in Manitoba 2404 | Aedes infirmatus, larvae of, sampling of | 1866, 1872, 2744, 3066 |
| mid-gut in 3076 | 2123 | |
| rearing of, techniques for 815 | Aedes ingrami, in Central African Republic | in conservation areas, in California 18' |
| Aedes echinus | 3047 | in irrigated pastures, in California 96, |
| in Spain 1490 | Aedes intrudens | 115, 1611, 1866, 3066 |
| in tree holes, in Spain 1490 | hatching date of 2111 | insecticide resistance in, in Utah 1300 |
| Aedes epactius | in USSR 2111 | Lagenidium giganteum in, infectivity of |
| biology of 1303 | Aedes japonicus | 102 |
| control of, growth regulators for 1889 | breeding places of 2740 | radar observations on 1248 |
| in USA 1303 | in Japan 2740 | Aedes niveus |
| in rock pools, in Utah 1303 | in tree holes, in Hokkaido 2740 | in Japan 2740 |
| Aedes excrucians | Aedes leucomelas | in tree holes, in Hokkaido 2740 |
| gut in, significance of mixed host blood in | hatching date of 2111 | Aedes normanensis |
| 1914 | in USSR 2111 | arboviruses in, in Queensland 3084 |
| hatching date of 2111 | Aedes lilii | host preferences of 1291 |
| in Japan 2740 | descriptions of 1637 | in Australia 1291, 3083, 3084 |
| in Poland 1914 | taxonomy of, distinct from A. simpsoni | Aedes novoniveus |
| in Spain 1489 | 1637 | in Malaysia 1310 |
| | | life history of 1310 |
| in USSR 2111 | Aedes lineatopennis, Murray Valley | |
| in snow pools, in Hokkaido 2740 | encephalitis, virus in, transmission of | Aedes oceanicus, Wolbachieae in, not four |
| mouthparts in 162 | 1323 | 2803 |
| population age composition in 1489 | Aedes luteocephalus | Aedes opok |
| Aedes flavescens | arboviruses in, in Senegal 2780 | in Central African Republic 2733 |
| Coelomomyces iliensis in, not infective | breeding places of 334, 1053 | in Ivory Coast 1080 |
| 2377 | egg-hatch in 1052 | yellow fever, virus in, in Central Africa |
| hatching date of 2111 | feeding behaviour in 1053, 3043 | Republic 2733 |
| in Spain 1489 | in Gambia 3080 | Aedes pembaensis |
| in USSR 2111 | in Ivory Coast 1080 | Dirofilaria immitis in, in East Africa |
| population age composition in 1489 | in Nigeria 334, 3043 | Wuchereria bancrofti in, not developing |
| Aedes flavopictus | in Senegal 347, 1052, 1053, 2780 | 550 |
| in Japan 2740 | in Upper Volta 3080 | Aedes pionips |
| in tree holes, in Hokkaido 2740 | on man, in Nigeria 334, 3043 | breeding places of 512 |
| Aedes fluviatilis | on monkey, in Senegal 1053 | in Canada 512 |
| development in, effects of salinity on | seasonal abundance of 1053 | in Finland 1916 |
| 3055 | traps for 1052 | Aedes poicilia |
| oviposition in, effects of salinity on 3055 | yellow fever | breeding places of 1312 |
| rearing of, techniques for 964 | virus in | in Philippines 823, 1312, 1321 |
| Aedes furcifer | in Senegal 347 | in abaca axils, in Philippines 1312 |
| arboviruses in, in Senegal 2780 | in Upper Volta 3080 | in banana axils, in Philippines 1312 |
| breeding places of 1053 | transmission of 1053 | in dwellings, in Philippines 1312 |
| feeding behaviour in 1053 | Aedes malayensis (see A. scutellaris | on Asian buffalo, in Philippines 1312 |
| in Senegal 1053, 2780 | malayensis) | on man, in Philippines 1312 |
| on monkey, in Senegal 1053 | Aedes mariae | Wuchereria bancrofti in, in Philippines |
| seasonal abundance of 1053 | control of, insecticides for 971 | 1312 |
| yellow fever, virus in, transmission of | enzymes in 2762 | Aedes polynesiensis |
| 1053 | in Italy 971, 2762 | control of |
| group of | on man, in Italy 971 | biological 2375, 2784 |
| in Senegal 166 | Aedes mascarensis, yellow fever, virus in, | destroying resting places for 2785 |
| yellow fever | transovarial transmission of 2128 | dengue virus in, in Futuna 124 |
| virus in | Aedes melanimon | enzymes in 355 |
| in Senegal 347 | arboviruses in, in California 85 | feeding behaviour in 2746 |
| transmission of 135 | control of 1850 | in American Samoa 2803 |
| transovarial transmission of 347 | biological 1872, 1873, 3066 | in French Polynesia 2784, 2785, 2803 |
| Aedes galloisi | insecticides for 1872, 1873 | in Wallis and Futuna Islands 124 |
| in China 2373 | in USA 85, 95, 96, 100, 1850, 1872, | in Western Samoa 2375 |
| in Japan 2740 | 1873, 3066 | on man, in French Polynesia 2785 |
| in tree holes, in Hokkaido 2740 | in conservation areas, in California 1872, | preyed on by, Toxorhynchites brevipalp |
| Aedes geniculatus | 1873 | 827 |
| biology of 1565 | in irrigated pastures, in California 96, | resting places of 2785 |
| in Spain 1490 | 3066 | Wolbachieae in |
| in UK 1565 | | in American Samoa 2803 |
| in tree holes | preyed on by, Hydrophilus triangularis, in California 100 | in French Polynesia 2803 |
| | traps for 95 | |
| in England 1565 | | Wuchereria bancrofti in, transmission o |
| in Spain 1490 | western equine encephalitis, virus in, | 355, 2417, 2418, 2746 |
| on man, in England 1565 | infectivity of 2970 | Aedes pseudoscutellaris |
| Aedes grossbecki | Aedes micropterus, chromosomes in 2117 | Brugia spp. in, development of exsheath |
| habitats of 2399 | Aedes minutus | microfilariae of 345 |
| in USA 2399 | arboviruses in, in Senegal 2780 | cell cultures from 2976 |
| Aedes hendersoni | in Senegal 2780 | dengue virus in, identifying of 1645 |
| Dirofilaria immitis in, development of | Aedes monticola, taxonomy of, characters | Ebola virus in, not replicating 990 |
| 1594 | distinguishing A. varipalpus and 2766 | Lassa virus in, not replicating 990 |
| in Canada 1316 | Aedes neoafricanus, in Senegal 347 | Aedes pulchritarsis |
| in USA 1623 | Aedes nigrinus | in Spain 1490 |
| in tree holes, in Florida 1623 | biology of 516 | in tree holes, in Spain 1490 |
| | | |

| Aedes pullatus | Aedes sierrensis contd. | Aedes taylori contd. |
|--|---|--|
| breeding places of 780 | Tolypocladium spp. in, in California | on monkey, in Senegal 1053 |
| distribution of 780 | 1864 | seasonal abundance of 1053 |
| in Canada 780 | traps for 164 | yellow fever, virus in, transmission of |
| in Switzerland 2751 | Aedes simpsoni | 1053 |
| Aedes punctodes, in Finland 1916 | breeding places of 3045 | group of |
| Aedes punctor | descriptions of 1637 | in Ivory Coast 1080 |
| breeding places of 512 | egg-hatch in 1052 | in Senegal 166 |
| control of, growth regulators for 3097 | in Central African Republic 3047 | yellow fever |
| hatching dates of 2111 | in Nigeria 334, 3043, 3045 | virus in |
| in Canada 512 | in Senegal 1052 | |
| in Czechoslovakia 1688 | on man, in Nigeria 334, 3043 | in Senegal 347 |
| in Finland 1916 | taxonomy of | transmission of 135 |
| in Japan 2740 | Aedes bromeliae distinct from 1637 | transovarial transmission of 347 |
| in USSR 2111, 3097 | A. lilii distinct from 1637 | Aedes togoi |
| in cattle sheds, in USSR 2111 | lectotype for 1637 | biology of 140 |
| in man-made lakes, in USSR 3097 | traps for 1052, 3043 | Brugia spp. in, development of 2735 |
| on cattle, in Czechoslovakia 1688 | Aedes sollicitans | B. malayi in |
| Aedes quasirusticus | blood-feeding in, not affected by host | damage to 2371 |
| in Spain 1489 | activity 1307 | transmission of 2405 |
| Microsporidia in, in Spain 1489 | breeding sites of, detecting of 1315 | Dirofilaria immitis in, transmission of |
| mites on, in Spain 1489 | control of | 2405 |
| nematodes in, in Spain 1489 | growth regulators for 1570, 1889 | disturbed venation mutant of 130 |
| population age composition in 1489 | insecticides for 1615 | hairless antenna mutant of 1600 |
| Aedes refiki | feeding behaviour in 1574 | in Canada 140 |
| enzymes in 2762 | flight activity in 1331 | notch wing mutant of 1600 |
| in Italy 2762 | in USA 151, 1248, 1315, 1331, 1574, | rearing of, techniques for 140 |
| Aedes riversi | 1615, 1620 | Romanomermis culicivorax in, infectivity |
| breeding places of 819 | in dredgings, in North Carolina 151 | of 822 |
| habitats of 819 | in rice-fields, in Louisiana 1620 | Aedes tormentor |
| in Japan 819 | nectar-feeding in 1574 | biology of 142 |
| on man, in Japan 819 | on man, in Connecticut 1574 | in USA 142, 1633 |
| Wolbachieae in 2803 | on rabbit, not affected by host activity | in woodland pools, in Texas 142 |
| Aedes rossicus | 1307 | taxonomy of, characters distinguishing A |
| habitats of 1568 | oviposition in 151 | atlanticus and 1633 |
| in Czechoslovakia 2119, 3089 | radar observations on 1248 | Aedes triseriatus |
| in Poland 1568 | traps for 1331 | algal extracts in, toxicity of 522 |
| in floodplain forests, in Czechoslovakia | Aedes sticticus | Bacillus sphaericus in, effects of |
| 3089 | California encephalitis, virus in, in | temperature on susceptibility to 1830 |
| vertical distribution of 3089 | Norway 538 | California encephalitis, virus in, in New |
| Aedes rupestris | control of, insecticides for 1642 | York 147 |
| Culicinomyces spp. in, in New South | Dirofilaria immitis in, in Alabama 3085 | control of |
| Wales 1093 | dispersal of 2748 | eliminating of breeding sites for 158 |
| in Australia 1093 | in Canada 2748 | insecticides for 2790 |
| Aedes rusticus | in Czechoslovakia 1688, 2119, 3089 | diapause in 3033 |
| control of | in Norway 538 | Dirofilaria immitis in, development of |
| growth regulators for 2751 | in USA 3085 | 1594 |
| insecticides for 975 | in USSR 173 | fatty acids in, toxicity of 522 |
| in Italy 975 | in floodplain forests, in Czechoslovakia | feeding behaviour in 523 |
| in Spain 1489 | 3089 | Funicularius triseriatus in, in Michigan |
| population age composition in 1489 | mating in 173 | 1335 |
| Aedes samoanus | nervous system in 2105 | in Canada 1617 |
| control of, biological 2375 | on cattle, in Czechoslovakia 1688 | in USA 80, 147, 157, 158, 523, 1335, |
| in Western Samoa 2375 | taxonomy of, characters distinguishing A. | 1623, 1853, 2380, 2969 |
| Wuchereria bancrofti in, transmission of | nigrinus and 516 | in tree holes |
| 2417, 2418 | vertical distribution of 3089 | in Florida 1623 |
| Aedes scapularis | Aedes stimulans | in Indiana 80 |
| in Brazil 125, 3056 | Bacillus sphaericus in, effects of | in tyres, in Kentucky 157 |
| seasonal abundance of 3056 | temperature on susceptibility to 1830 | La Crosse virus in |
| Aedes scutellaris | group of, California encephalitis, virus in, | infectivity of 1071 |
| complex of, Wolbachia spp. in 2803 | in New York 147 | not affected by gregarines 1647 |
| group of, red-eye mutant of 817 | Aedes stokesi | transmission of 1071 |
| Aedes scutellaris malayensis | egg-hatch in 1052 | transovarial transmission of 1072, |
| Brugia spp. in, development of exsheathed | in Senegal 1052 | 2969 |
| microfilariae of 345 | traps for 1052 | larval development in, effects of inorganic |
| cell cultures from 2976 | Aedes subniveus | salts on 160 |
| Aedes serratus | in Malaysia 1310 | nulliparous females of, persistence of 80 |
| in Brazil 3056 | life history of 1310 | oviposition attractants for 1040 |
| seasonal abundance of 3056 | Aedes taeniorhynchus | oviposition in, effects of inorganic salts or |
| Aedes sierrensis | autogeny in 1095 | 160 |
| Beauveria bassiana in, in California 1864 | control of | population dynamics of 80 |
| cannibalism in 1881 | growth regulators for 148, 1895 | proteins in 119 |
| control of | insecticides for 1066, 1895 | pupae of |
| biological 1604 evaluating of 164 | oils for 1605 | respiratory system in 1598 survival in absence of free water of |
| | flight activity in 1331 in USA 148, 151, 1095, 1331, 1895 | 1597 |
| development in | | Romanomermis culicivorax in, defence |
| effects of temperature on 89 model 1881 | in dredgings, in North Carolina 151 in temporary pools, in North Carolina | mechanisms against 1900 |
| dispersal of 3094 | 1895 | rose Bengal in, light-dependent toxicity of |
| egg-hatch in, stimuli for 1882 | oviposition in 151 | 1573 |
| eggs of, responses of predators to 1885 | preyed on by, Aiptasia pallida 2360 | taxonomy of |
| feeding behaviour in 89 | proteins in 119 | Aedes hendersoni misidentified as, in |
| in USA 86, 88, 89, 164, 1864 | regular mosquito iridescent virus in, | Manitoba 1316 |
| in tree holes, in California 88, 164 | vertical transmission of, males not | proteins as characters for 119 |
| larval development in, sex differences in | involved in 1622 | Trivittatus virus in, in Nebraska 2380 |
| 1886 | taxonomy of, proteins as characters for | vertical distribution of 523 |
| mating competitiveness in, effects of | 119 | western equine encephalitis, virus in, |
| sterilisation on 1870 | traps for 1331 | transmission of 2394 |
| on man, in California 164 | Aedes taylori | Wolbachieae in, not found 2803 |
| population dynamics of 87 | arboviruses in, in Senegal 2780 | Aedes trivittatus |
| proteins in 119 | breeding places of 1053 | Dirofilaria immitis in, defence mechanism |
| taxonomy of, proteins as characters for | feeding behaviour in 1053 | against 11 |
| 119 | in Senegal 1053, 2780 | in USA 137 |

Aedes trivittatus contd. western equine encephalitis, virus in. aenescens. Ophyra infectivity of, strain differences in 2127 Aedes unilineatus egg-hatch in 1052 in Senegal 1052 traps for 1052 Aedes upolensis, Wolbachieae in 2803 Aethus indicus Aedes varipalpus taxonomy of, characters distinguishing A.

monticola and 2766 group of, taxonomy of 2766 Afghanistan Aedes vexans arboviruses in, in California 85 bibliography 1625 breeding places of 2751 Cache Valley virus in, in Saskatchewan 1089 California encephalitis, virus in, in New York 147 Coelomomyces psorophorae in 2428 control of ontrol of biological 1891, 2750 growth regulators for 2751 insecticides for 1300, 1610, 1615, 1642 lecithin monolayers for 469 development in effects of temperature on 1073 models of 1073 africana, Mansonia Dirofilaria immitis in, in Alabama 3085 africana, Werneckia dispersal of 2748 fecundity in, relation of physiological age and 2109 africanus, Aedes and 2109 heavy rainfall as affecting 94 in Canada 1073, 1089, 2404, 2748 in Czechoslovakia 1688, 2119, 3089 in Italy 2967 in Italy 2967
in Switzerland 2750, 2751
in USA 85, 94, 137, 147, 798, 1300, 1610, 1615, 1891, 1897, 3059, 3085
in USA (Hawaii) 2280, 2372
in USSR 1076, 2109
in West Germany 469
in Yugoslavia 446
in floodplain foreste in Gerale algorithms in floodplain forests, in Czechoslovakia 3089 in woodland, in Minnesota 1610 insecticide resistance in, in Utah 1300 Jamestown Canyon virus in, in Connecticut 1897 Mermithidae in, in Manitoba 2404 nervous system in 2105 on cattle, in Czechoslovakia 1688 on man Aiptasia pallida in Belorussia 1076 in Switzerland 2751 oviposition in, behavioural orientation for 1090 Aircraft resting places of 2751 Tahyňa virus in 2430 in Czechoslovakia 2119 overwintering of 1343 transovarial transmission of 1343 traps for, visual responses to 3059 vertical distribution of 3089 Aedes vexans nipponii, bibliography 1625 Aedes vexans nocturnus (see A. vexans)
Aedes vigilax, Murray Valley encephalitis,
virus in, transmission of 1323 virus in, transmission of Aedes vittatus
arboviruses in, in Senegal 2780
breeding places of 1053, 3045
feeding behaviour in 1053 in Gambia 135 in Gambia 135 in Ivory Coast 1080 in Nigeria 334, 3045 in Portugal 1639 in Senegal 135, 347, 1053, 2780 on man, in Nigeria 334 seasonal abundance of 1053 yellow fever virus in transmission Alabama yellow fever, virus in, transmission of 1053 Aedes vittiger host preferences of 1291 in Australia 1291 Alabidopus bipilifer Murray Valley encephalitis, virus in, transmission of 1323 Aedimorphus, arboviruses in, in Senegal Alabidopus muris 2780 aegypti, Aedes aegyptia, Eucampsipoda aegyptiaca, Polyphaga

aenescens, Onthophagus Aerobacter, in Argas persicus, in Pakistan Aeromonas hydrophila, in. Dugesiella anax Aeromychirus, taxonomy of 280 biology of 709 in Japan 709 in dwellings, in Amami Islands on man, earache caused by 709 blood-sucking insects in 2993 leishmaniasis in 837 leishmaniasis in 837
Ornithodoros coniceps in 1431
Phlebotominae in 837
Sarcophagidae in 2185
Vespidae in 1972
Aflatoxins, in Periplaneta americana, effects of 1519
Africa, West, onchocerciasis in 2458
African swine fever virus Amblyomma americanum, not transmitted 3204 cajennense, not transmitted 3204 Ornithodoros coriaceus, transmission of Afrolistrophorus stubbei sp. nov., description of 2247 in Mongolia 2247 on Allactaga sibirica, in Mongolia 2247 Afrotropical region (see Ethiopian region) Agar, diet component for, Dermatophagoides farinae 2569 Aggregation pheromones Amblyomma spp. 2579
A. variegatum 2624
Argas spp. 2580
Blattella germanica 2060, 2063
Ornithodoros spp. 2580 agilis, Eucyclops
agilis, Laelaps
Aging, Musca domestica 397
Agricultural development malaria and, review 2403 onchocerciasis and, review Triatominae as affected by agrippinae, Listropsylla agyrtes, Ctenophthalmus mosquito control using 2360 preying on, Aedes taeniorhynchus 2360 insect control in, insecticides for 1066 insecticide sprays from, effects of weather on deposit patterns of 138

Lactrodectus mactans in, arriving in
England 2278 spraying of insecticides from 4
AI3-22542 (see Deet)
AI3-35765 (see Piperidine, 1-(3-cyclohexen-AI3-35765 (see Piperidine, 1-(3-cyclohexen-1-ylcarbonyl)-)
AI3-35770 (see 1H-Azepine, hexahydro-1-[(2-methylcyclohexyl)carbonyl]-)
AI3-50172 (see 1-Aziridinecarboxamide, N,N'-1,6-hexanediylbis-)
AI3-62488 (see Aziridine, 1,1'-(cyclohexylphosphinothioylidene)bis-; see Phosphinothioic amide, P,P-bis(1-aziridinyl)-N-cyclohexyl-)
akamushi. Lentotrombidium akamushi, Leptotrombidium Akodon, Polygenis frustratus on, in Brazil A. vexans in, nematodes in 3085
Anopheles erucions in 3085 Anopheles crucians in, viruses in A. punctipennis in, nematodes in 3085 Culicidae in 510 sp. nov., description of 3219 in Thailand 3219 on Rattus sabanus, in Thailand 3219 sp. nov., description of 1445 in Australia 1445 on Rattus tunneyi, in Western Australia

2249

3204

Alactagulus acontion, Siphonaptera on, in USSR 1031 Alarm pheromones Carpoglyphus lactis 3223 Iridomyrmex pruinosus Lardoglyphus konoi 3223 Alaska Culiseta silvestris in 814 Siphonaptera in, on mammals 770 alaskaensis, Culiseta alaskensis, Laelaps alazanicus, Culicoides Alberproseniini, taxonomy of 1276 Alberta, Aedes vexans in 1073 albescens, Lymantria dispar (see L. d. ianonica) albescens, Uranotaenia albicans, Culicoides albifrontalis, Calliphora albimanus, Anopheles albipictus, Dermacentor albipuncta, Hydrotaea albipunctatus, Clogmia (see Telmatoscopus albipunctatus) albipunctatus. Telmatoscopus (Clogmia) albopictus, Aedes
Albumins, in Glossina morsitans diet, absorption through mid-gut of 1671 Albumins, blood serum diet component for, Dermatophagoides
pteronyssinus 271 pieronyssinus 2/1 in Lucilia cuprina diet, effects on sexual receptivity of 2189 Alcaelaphinae, Oestrinae on, in Africa 2474 alcasidi. Aedes Alces alces Dermacentor albipictus on, in Ontario 2590 Lipoptena cervi on, in Finland 1952 Alcohol dehydrogenase (see Dehydrogenase, alcohol) Aldicarb (2-methyl-2-(methylthio)propanal O-[(methylamino)carbonyl]oxime) in Apis mellifera, toxicity of Aldrichina grahami enzymes in 382, 906 fat-body in, developmental changes in Aldrin $((1\alpha, 4\alpha, 4a\beta, 5\alpha, 8\alpha, 8a\beta)$ -1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8ahexahydro-1,4:5,8-dimethanonaphthalene) in Musca domestica, ATPase inhibition by 2885 Alectorobius coniceps (see Ornithodoros coniceps) Aleochara, parasitising, dung-breeding flies, in California 1724 Aleochara tristis in France 210 preying on Haematobia irritans, and biological control using, in California 210 Musca autumnalis, and biological control using, in California 210 Aleocharinae flight activity in 2892 in dung, in Finland 2892 Aleuroglyphus ovatus citral in 3223 lipids in 2020 alexandri, Phlebotomus alexis, Onitis
Alfalfa (see Lucerne) alfreddugesi, Eutrombicula in, house dust, identifying of 933 toxins of, mosquito control using Algeria, Phlebotominae in 3114 1871 Algericus, Laelaps
Alkamate (see l-Naphthalenol, 2-methyl-,
methylcarbamate)
allactaga, Criniscanor Allactaga elater, Siphonaptera on, in USSR 1031 allactaga, Radfordia Allactaga severtzovi, Siphonaptera on, in USSR 1031 Allactaga sibirica

Amphipsylla vinogradovi on, in Qinghai Province 1036

fur mites on, in Mongolia 2247

| Allergens | Alveonasus lahorensis (see Ornithodoros | Amblyomma nuttalli contd. |
|--|---|--|
| of Aedes aegypti 546 | lahorensis) | parasitised by, Hunterellus spp., in Ivory |
| of Apis mellifera 1506 | amaenus, Tabanus | Coast 1989 |
| preparing of 241 | Amalaraeus penicilliger dissimilis | Amblyomma ovale |
| of Apis mellifera venom 2198 | biotopes of 499 | in Panama 3200 |
| of Boophilus microplus 2587 | in USSR 499 | on man, paralysis caused by 3200 |
| of Culex australicus 1506 | on small mammals, in USSR 499 | Amblyomma testudinarium |
| of Dermatophagoides farinae 670, 1454, | amazonica, Siolimyia | in India 48 |
| 2914 | amblus, Ornithodoros | in Japan 2906 |
| of Dermatophagoides pteronyssinus 271, | Amblyomma, Congo virus in, transmission | on Elephas maximus, in Assam 48 |
| 664, 937, 1208, 1209, 1454, 2238, | of 256 | on man, in Kyushu 2906 |
| 2914, 2924 | Amblyomma americanum | Amblyomma variegatum |
| of house dust | African swine fever virus in, not transmitted 3204 | acaricide resistance in |
| role of cockroaches in 675, 1516 | control of | genetics of 1999 in Tanzania 1999 |
| role of mites in 670, 675, 1443, 1516 | acaricides for 2553, 3245 | aggregation pheromone in 2579, 2624 |
| of Myrmecia pilosula 1506 | controlled burning for 925 | biology of 2549 |
| of Myrmecia pyriformis 1506 | foveal glands in 1441 | chromosomes in 2213 |
| of Polistes humilis 1506 | in USA 925, 1193, 1194, 2282, 2553, | control of |
| of Tyrophagus putrescentiae 2914 | 2907 | acaricides for 644, 1999, 2554 |
| of Vespula venoms 1423, 2198 | on Bos indicus \times B. taurus, resistance to | for heartwater control 2004 |
| Allergy (see Hypersensitivity) | 1194 | Dugbe virus in, in Nigeria 2596 |
| Allethrin (2-methyl-4-oxo-3-(2-propenyl)-2- | on cattle | in Central African Republic 2603, 3080 |
| cyclopenten-1-yl 2,2-dimethyl-3-(2- | in Oklahoma 2553, 2907 | in Kenya 644 |
| methyl-1-propenyl)cyclopropanecarboxy- | resistance to 1193, 1194 | in Nigeria 2596 |
| late) | on man, skin reactions to 3201 | in Tanzania 1999 |
| against 1225 | on Sylvilagus floridanus, in Virginia | in Zimbabwe 2004 |
| Aedes spp. 1225 Blattella germanica 1225 | on turkeys, in Mississippi 925 | neuromuscular system in 3203 on cattle |
| Cimex lectularius 1225 | on zebu | attachment by 2624 |
| Musca domestica 1225, 2937 | in Oklahoma 2907 | in Nigeria 2596 |
| in Musca domestica, interactions with | resistance to 1193 | sex determination in 2213 |
| nervous system of 691 | salivary glands in, functional morphology | spermatogenesis in 2213 |
| in Periplaneta americana, effects of | of 1983 | testes in, development of 2213 |
| temperature on susceptibility to 476 | salivation in 1978, 1981 | Theileria velifera in, development of |
| sunlight stability of 2937 | regulation of 1757 | 1197 |
| (1R-trans)- | Amblyomma cajennense, African swine fever | toxaphene resistance in, in Kenya 644 |
| against | virus in, not transmitted 3204 | yellow fever |
| Aedes spp. 1225 | Amblyomma cyprium cyprium | virus in |
| Blattella germanica 1225 Cimex lectularius 1225 | hosts of 2207 in Australia 2207 | in Central African Republic 2603, 3080 |
| Musca domestica 1225 | in Mariana Islands 2207 | transmission of 2603 |
| $[1R-[1\alpha(S^*),3\beta]]$ -, with permethrin, | in New Hebrides 2207 | Amblyospora |
| against, Musca domestica 2490 | in Santa Cruz Islands 2207 | in |
| Allium cepa (see Onion) | in Solomon Islands 2207 | Culex salinarius |
| Allium sativum (see Garlic) | on fowl, in New Hebrides 2207 | development of 2749 |
| Allodermanyssus, on mammals, in Mexico | on pig, in Queensland 2207 | pathogenicity of 1333 |
| 2583 | Amblyomma gemma, aggregation pheromone | transovarial transmission of 1333 |
| Allodermanyssus sanguineus, Rickettsia | in 2579 | spores of, cleaning of 178 |
| akari in, transmission of 2574 | Amblyomma hebraeum | Amblyospora opacita, against, blood-sucking |
| Alluaudomyia, in Cayman Islands 1658 | aggregation pheromone in 2579, 2624 | flies 2354 |
| Allyxycarb (4-(di-2-propenylamino)-3,5- | control of acaricides for 2554 | amboinensis, Toxorhynchites ambulans, Haemogamasus |
| dimethylphenyl methylcarbamate) against, <i>Boophilus microplus</i> , on grasses | for heartwater control 2004 | Ambush (see Permethrin) |
| 660 | dispersal of 1995 | America, Central, vector control in 2286 |
| almana, Junonia (Precis) | enzymes in 253 | America, North |
| almana, Precis (see Junonia almana) | hemolymph in, proteins in 253 | aquatic insects in 78 |
| Almond (Prunus amygdalus) | in South Africa 655, 1995 | Araneae in, book 1458 |
| Almond orchards, Aedes sierrensis in, | in Zimbabwe 654, 1182, 2004 | Pygmephorus spp. in, on small mammal |
| dispersal of 3094 | on cattle | 2643 |
| Alnus, acaricidal activity of extracts of 246 | in South Africa 655 | American Samoa |
| Alopecia | in Zimbabwe 654, 1182 | Aedes polynesiensis in 2803 |
| in guinea-pig, caused by <i>Trixacarus caviae</i> 1799 | population dynamics of 1182 | Culicidae in 1634 |
| in Rattus tunneyi, caused by Alabidopus | saliva in, proteins in 253 seasonal abundance of 655 | americana, Neoschoengastia americana, Periplaneta |
| muris 1445 | sex pheromone of, bioassay for 656 | americana, Stenoponia |
| in sheep, caused by Caloglyphus berlesei | Amblyomma lepidum | americana, Walchia |
| 1775 | aggregation pheromone in 2579 | americanum, Amblyomma |
| in Vulpes fulva, caused by Siphonaptera | chromosomes in 2213 | Americas, arthropod-borne encephalitis in |
| 2712 | control of, acaricides for 1999 | 1065 |
| Alphitobius diaperinus | in Tanzania 1999 | amica, Musca |
| Choanotaenia infundibulum in, in Sudan | sex determination in 2213 | amictus, Anopheles |
| 1742 in France 2538 | spermatogenesis in 2213 | Amidase, amino acid aryl- |
| in France 2538 in Sudan 1742 | testes in, development of 2213 Amblyomma loculosum, Aride virus in | in Apis mellifera 1420 |
| in expanded polystyrene, damage caused | 2966 | in Apis mellifera venom 1420 Amidophos (see Crufomate) |
| by 2538 | Amblyomma maculatum | Amino acids |
| in poultry farms, in Sudan 1742 | aggregation pheromone in 2579 | in Anopheles stephensi hemolymph, |
| alpina, Bovicola (see Damalinia alpina) | antigens of 20 | effects of Plasmodium berghei on |
| alpina, Damalinia (Bovicola) | control of, acaricides for 1192, 2553, | 1048 |
| alpinum, Leptotrombidium (Trombiculindus) | 2908 | in invertebrates, book 1504 |
| alpinus, Trombiculindus (see | foveal glands in 1441 | Aminocaproic acid (6-aminohexanoic acid) |
| Leptotrombidium alpinum) | in USA 1202, 2553 | antifeedant for, Aedes aegypti, on guinea |
| Alticala accentatus | on cattle, in Oklahoma 2553 | pig 1655 |
| Alticola argentatus | on Odocoileus virginianus, in Texas 1202 | Aminopeptidase, in Rhodnius prolixus mid |
| Leptotrombidium apertum on, in Tadzhikistan 932 | on rabbit immunity to 20 | gut 761 Aminopeptidase, cytosol, in Anopheles |
| L. wolandi on, in Tadzhikistan 932 | immunization against 3205 | aquasalis, genetics of 1913 |
| Alticola macrotis, Ceratophyllus beljaevi on, | on Rattus norvegicus, effects of host diet | Aminotransferase, alanine |
| in USSR 2083 | on 410 | in cattle blood, effects of Ixodoidea on |
| Altosid (see Methoprene) | sex pheromone of 2578 | 2209 |
| Altozar (see Hydroprene) | Amblyomma nuttalli | in dog serum, effects of Buthus tamulus |
| Alugan (see Bromocyclen) | in Ivory Coast 1989 | venom on 3236 |

442 Aminotransferase, alanine contd. in frog, effects of Heterometrus fulvipes venom on 686 Aminotransferase, aspartate in Aedes caspius, genetics of 777 in Anopheles aquasalis, genetics of 1913 in Anopheles culicifacies, genetics of 1042 in cattle blood, effects of Ixodoidea on 2209 in dog serum, effects of Buthus tamulus venom on 3236 in frog, effects of Heterometrus fulvipes venom on 686

Amitraz (N'-(2,4-dimethylphenyl)-N-[[(2,4-dimethylphenyl)-N-[(2,4-dimethylphenyl)]-N-[(2,4-dimethylphenyl)] dimethylphenyl)iminolmethyll-Nmethylmethanimidamide) against Argas walkerae, on fowl 2904 Demodex canis, on dog 940, 1789, 2244 Haemaphysalis longicornis, on cattle 3197 Sarcoptes scabiei, on dog 940, 1789 in butter, residues of 1196 in cattle, residues of 1196 in cattle dips, determination of 658 in milk, residues of 1196 resistance to, in, Boophilus microplus 2599 Ammonia attractant for, Hippelates spp. 208 in Aedes aegypti, as nitrogenous waste product 1628 in fly attractants 2876 in Rhipicephalus sanguineus, receptors for 1982 Ammonium in Aedes aegypti, dependence of formyltetrahydrofolate synthetase activity on 1051 in Anopheles sinensis breeding water 1319 in frog, effects of scorpion venom on in *Simulium nyasalandicum* breeding water 843 Ammotragus lervia Damalinia spp. on, in Texas 2264 D. fulva on, in Texas 2065 Dermacentor albipictus on, in Texas 2264 Otobius megnini on, in Texas 2264

Amodiaquine (4-[(7-chloro-4-quinolinyl)amino]-2-[(diethylamino)methyl]phenol)
against, Plasmodium falciparum, in man 1046 amoena, Ampulex (see A. dissector)
Amorpha fruticosa, repellent activity of extracts of 246 AMP (see Adenylic acid) Amphalius, in China 1035 Amphibia, Culicidae on, in Queensland Amphipsylla jingtieshanensis sp. nov., description of 1037 in China 1037 on Cricetulus longicaudatus, in Qinghai Province 1037 on Microtus irene, in Qinghai Province Amphipsylla marikovskii biotopes of 499 in USSR 499 on small mammals, in USSR 499 on small mammals, in USSA 499

Amphipsylla quadratoides zhongdianensis
ssp. nov., description of 1545
in China 1545
on Eothenomys proditor, in Yunnan
Province 1545
on Ochotona thibetana, in Yunnan
Province 1545 on Pitymys irene, in Yunnan Province 1545 Amphipsylla sibirica pollionis in USA 1028 on rodents, in Colorado 1028 on rodents, in Colorado 1028
Amphipsylla sibirica washingtona
in USA 1028
on rodents, in Colorado 1028
Amphipsylla tenuihama
sp. nov., description of 1036
in China 1036

Amphipsylla tenuihama contd. on Cricetulus barabensis, in Qinghai Province 1036 Cricetulus longicaudatus, in Qinghai Province 1036 on Cricetus cricetus, in Qinghai Province 1036 Amphipsylla tuta chaliensis ssp. nov., description of 1545 in China 1545 on Eothenomys custos, in Yunnan Province 1545 Pitymys irene, in Yunnan Province 1545 Amphipsylla tuta deqinensis ssp. nov., description of 1545 in China 1545 on Apodemus agrarius, in Yunnan Province 1545 Apodemus latronum, in Yunnan Province 1545 Eothenomys custos, in Yunnan Province 1545 on Marmota himalayana, in Yunnan Province 1545 on Pitymys irene, in Yunnan Province 1545 Amphipsylla vinogradovi gansuensis ssp. nov., description of 1036 in China 1036 on Allactaga sibirica, in Qinghai Province on Microtus arvalis, in Qinghai Province 1036 on Mus musculus, in Oinghai Province 1036 on Ochotona, in Qinghai Province 1036 Amphotericin-B, against, Catenaria anguillulae, in Romanomermis Ampulex amoena (see A. dissector) Ampulex compressa in USA (Hawaii) 2058 parasitising, Periplaneta americana, and biological control using, in Cook Islands 2058 Ampulex dissector in Japan 712 on man, stings by 712 preying on, Blattaria 712 Amylase
in Cheyletus eruditus gut 2041
in Xenopsylla astia gut 1285
in Xenopsylla astia mid-gut 3027
in Xenopsylla cheopis gut 1285
in Xenopsylla cheopis mid-gut 3027
Amyloidosis, in rabbit, caused by Glossina
371 Anaphylaxis to Apis mellifera, in man 401 to Apis mellifera venom, in man 634 to Vespula, in man 401 Anaplasma control of, antibiotics for 1192 Boophilus spp., transmission of 2682 B. microplus, transmission of 2677 cattle in Brazil 2682 in Zimbabwe 654 Anaplasma marginale Aedes albopictus, persistence of Boophilus spp., transmission of 2683 B. microplus not transmitted transovarially 2628 transmission of 2132 cattle, symptoms of 2683 Rhipicephalus sanguineus, trans-stadial transmission of 2601 taxonomy of, characters distinguishing A. mesaeterum and 651 Anaplasma mesaeterum sp. nov., description of 651 control of, antibiotics for 651

cattle, infectivity of 651 goat, infectivity of 651 sheep, in Netherlands 651 vectors of 651

Anaplasma ovis, taxonomy of, characters distinguishing A. mesaeterum and 651 anastasii, Pheidole

Anastatus tennines in India 1268 parasitising, Supella longipalpa, in India 1268 Anastrepha suspensa, control of, insecticides for 1066 anatolicum, Hyalomma anax. Dugesiella Anax junius in USA 2857 n USA 2857
preying on, Cochliomyia hominivorax, in
Texas 2857
Ancistropsylla nepalensis
in India 3025
in Nepal 3025 on Cervus unicolor, in Tamil Nadu 3025 andersoni, Dermacentor andrejevi, Phlebotomus andricus, Culex Androctonus australis eyes in 3233 venom of 292, 2659, 2988 Androctonus crassicauda in Iran 2932 in Saudi Arabia 1234 on man, in Saudi Arabia 1234 venom of 2932 Androlaelaps, on mammals, in Mexico 2583 Androlaelaps fahrenholzi in Bulgaria 1778 in Japan 2009 in USA 1256, 1991 in USSR 1546 in Bubo virginianus nests, in New York 1991 in Microtus arvalis nests, in Armenia 1546 on Mephitis mephitis, in Indiana 1256 on mink, in Indiana 1256
on Procyon lotor, in Indiana 12
on rodents, in Hokkaido 2009
on small mammals, in Bulgaria 1778 on Urocyon cinereoargenteus, in Indiana 1256 on Zapus, in North America seasonal abundance of 2009 vertical distribution of 1778 Androlaelaps longipes, in Bulgaria, not found 1777 Androst-4-en-3-one, 17-hydroxy-, (17β) - (see Testosterone) anduzei, Lutzomyia Anemia in cattle caused by Boophilus microplus 1761 caused by Theileria 2225 Anemia, hemolytic, in vertebrates, caused by Loxosceles reclusa 951 Anemonia, toxin of 2659 Anesthetics, for Culicoides, carbon dioxide as 2441 Anethole (see Benzene, 1-methoxy-4-(1propenyl)-) Anevrina unispinosa food preferences in 1400 in USSR 1400 seasonal abundance of 1400 Angola Anopheles spp. in, in dwellings 1641 Culex watti in 2781 angustum, Trogoderma angustus, Ixodes Aniline blue, with orange G, for staining cuticular growth layers in thoracic phragma in Glossina 566 Animal footprints, Culicidae in, in Djibouti 1075 Animal health, entomology in, book 2308 Animal housing, Anopheles stephensi in, in Tamil Nadu 540 Animal husbandry, Triatominae as affected Animal products, insecticides in, effects on food value of 1472 Anisaldehyde (see Benzaldehyde, methoxy-) Anise (see Pimpinella anisum)
Anisic acid (see Benzoic acid, methoxy-)
anisus, Ceratophyllus
Anisyl alcohol (see Benzenemethanol, armethoxy-)
annandalei, Uranotaenia
Annelida 913, 1657

| Subject Index | | 443 |
|--|--|---|
| Annual reports (1974), East African Institute | Anopheles contd. | Anopheles albimanus contd. |
| of Malaria and Vector-Borne Diseases 474 | attraction of | Plasmodium contd. |
| Annual reports (1975) | to light 537 to mammals 2737 | P. vivax in, infectivity of, strain differences in 1596 |
| Department of Veterinary and Tsetse | biology of 986 | propoxur resistance in, deliberately linked |
| Control Services, Zambia 2461 | blood-meals in, sampling and interpreting | to Y chromosome 2129 |
| East African Institute of Malaria and Vector-Borne Diseases 474 | of, review 3057 California encephalitis, virus in, in New | pupal phenotypes in 1596 |
| Annual reports (1976) | York 147 | rearing of efficiency of 1618 |
| Department of Veterinary and Tsetse | Coelomomyces spp. in, in Thailand 1607 | techniques for 2129 |
| Control Services, Zambia 2462 | control of | reduced palmate mutant of 2411 |
| Ministry of Agriculture and Natural Resources and the Environment, | for malaria control 1350, 2436 | RNA in, synthesis of 1325 sampling of 1602 |
| Mauritius 626 | genetic 2268 | sterilisation of, techniques for 1326 |
| Annual reports (1977), Centre for Overseas | insecticides for 971, 980, 1278, 1322, | taxonomy of 3081 |
| Pest Research, UK 736 | 1564, 2757, 2774 | translocations in 1317 complex of, taxonomy of 2767 |
| Annual reports (1977-78) BIOTROP 726 | non-target effects of 64, 968 enzymes in, determination of 513 | Anopheles amictus |
| Cornell University Agricultural | genetics of, electrophoretic techniques for | host preferences of 1291 |
| Experiment Station 1239 | studying 143 | in Australia 1291 Anopheles amictus hilli (see A. hilli) |
| Department of Agricultural Technical | hygienic importance of 458 | Anopheles annularis |
| Services, South Africa 310 New York State College of Agriculture | identifying of, review 830 in Fennoscandia 1086 | control of, insecticides for 149 |
| and Life Sciences 1239 | in Finland 1916 | DDT susceptibility in, testing of 149 in India 149, 1627, 3102 |
| Annual reports (1978) | in France 177 | parasitised by, Arrenurus spp., in India |
| Council of Medical Research, India 2038 | in Indonesia 2090 | 3102 |
| Danish Pest Infestation Laboratory 735 Department of Agriculture for Northern | in Maritime Provinces 1617 in Switzerland 2751 | Anopheles annulipes development in |
| Ireland 2005 | in West Germany 458 | effects of crowding on 534 |
| Department of Agriculture, Western | in dwellings | effects of salinity on 534 |
| Australia 38 Entente Interdépartementale pour la | in Gambia 2098 in Upper Volta 1564 | effects of temperature on 534 fecundity in, effects of larval rearing |
| Démoustication du Littoral | in irrigated pastures, in California 96 | conditions on 535 |
| Méditerranéen, France 170, 171 | insecticide resistance in 2263, 2265, 2403 | host preferences of 1291 |
| Gorgas Memorial Laboratory, Panama 728 | in Romania 1322 land use changes as affecting 2695 | in Australia 1291, 3083 Anopheles aquasalis |
| International Centre of Insect Physiology | on man | enzymes in 1913 |
| and Ecology, Kenya 727 | in Assam 3100 | genetic variability in 1913 |
| James Cook University of North Queensland 2132 | in Brazil 2801 in Gambia 135 | in Brazil 1913 in Guyana 968 |
| Regional Agricultural Science Service, UK | in Italy 969, 971 | on man, in Guyana 968 |
| Para Jacobianto of Transical Harrison 782 | Plasmodium spp. in | taxonomy of |
| Ross Institute of Tropical Hygiene 783 Secretary for Health, Zimbabwe 980 | infectivity of, genetics of 1817 transmission of 2950 | Anopheles deltaorinoquensis as synonym of 3081 |
| South African Institute for Medical | P. falciparum in | relation of A. argyritarsis and 1913 |
| Research 996 | in Gambia 2098 | relation of A. evansi and 1913 |
| Tsetse Research Laboratory, UK 1668 Annual reports (1978-79) | infectivity of 774 preyed on by, Culex halifaxii 547 | Anopheles arabiensis Brugia malayi in, damage to 2371 |
| Agricultural Research Council, UK 1508 | role in malaria problems of 2379 | carbon dioxide in, responses to 1905 |
| Department of Agricultural Technical | species complexes in 996 | chromosome inversion polymorphism in, |
| Services, South Africa 2987 London School of Hygiene and Tropical | surveillance of 1058 taxonomy of 537 | variation in 2101 chromosomes in 2358 |
| Medicine 2265 | Wuchereria bancrofti in, transmission of | cross-mating of, failure of X-chromosome |
| University of Agricultural Sciences, | 2746 | recombination in 3075 |
| Hebbal 2017 Annual reports (1979) | Anopheles aconitus control of, insecticides for 530, 532, | cuticle in, hydrocarbons in 1336 dieldrin resistance in, deliberately linked |
| Cornell University Agricultural | 1583, 1586, 1892, 1923 | to Y chromosome 2721 |
| Experiment Station 2290 | in Indonesia 530, 532, 1583, 1586, 1892, | human odour in, responses to 1905 |
| New York State College of Agriculture and Life Sciences at Cornell University | 1923 Anopheles albimanus | in Gambia 2099 in Kenya 3053 |
| 2290 | Brugia malayi in, damage to 2371 | in Nigeria 2096, 2101 |
| Rothamsted Experimental Station, UK 3012 | chromosomes in 1317 control of 3041 | in South Africa 537 in Zambia 1656 |
| Annual reports (1979-80), Commonwealth | biological 1569 | in dwellings |
| Institute of Biological Control 2986 | sterile-insect release for 1602, 2267, | in Nigeria 2101 |
| annularis, Anopheles annulata, Culiseta | 2396 diel activity pattern in 1602 | in Zambia 1656 in grain stores, in Kenya 3053 |
| annulatum, Sphaerodema | distribution of 2286 | insecticide resistance in 2427 |
| annulatus, Boophilus | ebony mutant of 816 | multiple feeding in 2096 |
| annulatus, Leucotabanus annulifera, Mansonia | eggs of, storing of 509 enzymes in 153 | on man, in Nigeria 2096 pharyngeal armature in 2371 |
| annulioris, Culex | green larva mutant of 144 | Plasmodium spp. in |
| annulipes, Aedes | in El Salvador 1602, 2267, 2364 | in Zambia 1656 |
| annulipes, Anopheles annulirostris, Culex | in Mexico 2400, 3041 in Nicaragua 2284 | transmission of 537 taxonomy of, characters distinguishing A. |
| annulus, Culex (see C. vishnui) | in Panama 2364 | gambiae and 1336 |
| Anocentor nitens | in stables, in El Salvador 1602 | wind responses in 1905 |
| Babesia caballi in, transmission of 2576 control of, acaricides for 266, 3245 | insecticide resistance in 2286, 2364 in Nicaragua 2284 | Anopheles arabiensis × A. gambiae, male sterility in, genetics of 1062 |
| drop-off in, effects of photoperiod on | inversions in 1317 | Anopheles argyritarsis, taxonomy of, |
| 2954 fooding in effects of photonoried on | mating competitiveness in | relation of A. aquasalis and 1913 |
| feeding in, effects of photoperiod on 2954 | effects of chemosterilants on 2396 in MACHO strain 2396 | Anopheles atroparvus Brugia malayi in, damage to 2371 |
| Anoedioporpa, genitalia in 1555 | Nosema algerae in, infectivity of 1334 | chromosomes in 818 |
| anomala, Haemaphysalis | on man, in Mexico 2400 | control of |
| anomalus, Chaoborus anomalus, Hoplopsyllus | packaging of, techniques for 1326 parathion resistance in | genetic 2792 insecticides for 296, 1242, 1558 |
| Anopheles | and cross-resistance 153 | DDT in, escape responses to 1056 |
| age-grouping of, cuticular growth lines for 2424 | selection for 153 pharyngeal armature in 2371 | DDT resistance in 2107 feeding behaviour in, effects of DDT on |
| antennal hair erection in 2125 | Plasmodium falciparum in, infectivity of, | 2107 |
| arboviruses in in California 1851 | strain differences in 1596 | flight activity in 1056 |

P. falciparum in, in Liberia 1046

water mites on, mortality caused by

Anopheles atroparvus contd. Anopheles cruzii Anopheles freeborni glutathione in, extracellular 2435 blood-meals in, size of 348 control of in France 2363 in Brazil 348 biological 101, 107, 1865, 1872 in Romania 1322 in USSR 1558 in Yugoslavia 446, 3042 insecticides for 1872 in USA 90, 95, 101, 103, 107, 1865, 1872, 1883, 2761 Anopheles culicifacies biology of 1911 breeding places of 1297 chromosomes in 1042, 1651 control of, insecticides for 149, 1908, in dwellings, in Romania 1322 insecticide resistance in 2427 in conservation areas, in California 1872 in rice-fields in California 101, 103, 107, 1865, 2761 sampling of 90 Plasmodium berghei in, refractoriness to 1912 DDT resistance in, in Karnataka 1908 P. falciparum in, infectivity of 443
P. simiovale in, infectivity of 1337
sterilisation of, chemosterilants for 1041,
2387 Lagenidium giganteum in, infectivity of DDT susceptibility in, testing of 149 dieldrin resistance in Plasmodium falciparum in, infectivity of, strain differences in 1595 genetics of 2097 in Karnataka 1908 Anopheles atropos flight activity in in USA 1331 traps for 1331 dispersal of 2092, 2427 enzymes in 1042, 2364 P. simiovale in, infectivity of 1337 1331 P. vivax in infectivity of 3079 strain differences in 1595 feeding behaviour in 811 homozygous translocation strain of 1616 in India 149, 1297, 1627, 1908, 1912, 2364, 3102 preyed on by

Mesostoma spp., in California 2761

M. lingua, in California 1883

Rhynchomesostoma rostratum, in

California 1883 Anopheles balabacensis dam construction as affecting 2799 dam construction as are cong 2799 feeding behaviour in 3100 in India 1627, 3100 in Thailand 2799 on man, in Assam 3100 Plasmodium knowlesi in, infectivity of in Pakistan 811, 2364, 3062 in Sri Lanka 2092, 2364, 2427 California 1883
Turbellaria, in California 103
pupal phenotypes in 1595
sampling of 1877
sexual receptivity in, factors governing
onset of 3091
traps for 95
Anopheles funestus in cattle sheds in Pakistan 3062 in Sri Lanka 2092 in dwellings, in Pakistan 3062 Anopheles balabacensis balabacensis control of in wells, in Tamil Nadu 1297 evaluating of 2789 insecticide resistance in 2364 insecticides for 2789
in Malaysia 2789
in dwellings, in Sabah 2789
on man, in Sabah 2789
Plasmodium simiovale in, transmission of life tables for 3062 arboviruses in, in Nigeria 334 control of, insecticides for 1046 dams as affecting 2729 in Cameroon 1074, 2729 in Central African Republic 3047 in Congo 1848 maroon eye mutant of 1042 mating in 804, 1907 multiple insemination in on man, in Tamil Nadu 1912 1337 oviposition in 811 P. vivax in, transmission of 3079 Anopheles bancroftii
host preferences of 1291
in Australia 1291, 3083
on man, in Queensland 1291 rearing of, techniques for 1907 in Kenya 3053 seasonal abundance of 1297, 1912 sex determination in 1651, 2412 in Liberia 1046 in Nigeria 334 survival in 2092 triploidy in 2412 in South Africa 537 in dwellings, in Cameroon 1074 in grain stores, in Kenya 3053 on man, in Central African Republic 3047 Anopheles barbirostris in Indonesia 1638 in Malaysia 1638 in Mariana Islands Anopheles darlingi nopnetes darting
control of, non-target effects of 968
DDT resistance in
behavioural 1572
in Brazil 1057
feeding behaviour in 335, 1338, 2793
in Brazil 155, 335, 1057, 1338, 1572,
2793, 2801 2402 in Thailand 1638 variation in 1638 vector ability in 1638 Anopheles beklemishevi enzymes in 2104, 2759 in Finland 1581, 2104, 2759 oviposition in, inducing of 1614 Plasmodium falciparum in, in Liberia 1046 Wuchereria bancrofti in, transmission of 1264 in Guyana 968
in dwellings, in Brazil 1338
on man, in Brazil 1338, 2793
population age structure in 335
seasonal abundance of 2793
Anopheles deltaorinoquensis, taxonomy of, synonym of A. aquasalis 3081
Anopheles donaldi, in Malaysia 3063
Anopheles dthali Anopheles gambiae taxonomy of breeding places of 3045 effects of dams on 10 cell cultures from 2976 characters distinguishing A. messeae and 2104, 2759 characters for 1581 misidentified as A. maculipennis maculipennis, in Finland 2759 chromosome inversion polymorphism in, variation in 2101 chromosomes in 2358 chromosomes in 2358 control of 2034 destroying breeding places for insecticides for 1046, 1075 lecithin monolayers for 1560 Anopheles cameroni
descriptions of 2768
in South Africa 2768
taxonomy of, characters distinguishing A.
rhodesiensis and 2768 breeding places of 1075 control of crithidia fasciculata in 475
cross-mating of, failure of X-chromosome recombination in 3075
cuticle in, hydrocarbons in 1336 destroying breeding places for 1075 insecticides for 1075 in Djibouti 1075 in Yemen 332 Anopheles campestris control of, insecticides for 2806 feeding behaviour in 2806 in Malaysia 2806 in dwellings, in West Malaysia 2806 on cattle, in West Malaysia 2806 on man, in West Malaysia 2806 seasonal abundance of 2806 dams as affecting 2729 gonotrophic cycle in 2413 in Brazil 2034 Anopheles earlei in Canada 152 overwintering in 152 in Brazil 2034 in Cameroon 2729 in Central African Republic 3047 in Congo 1848, 2413 in Djibouti 1075 in Gambia 1330, 2099 western equine encephalitis, virus in, transmission of 152 Anopheles claviger
hosts of 445 Anopheles evansi taxonomy of in Portugal 2089 in Yugoslavia 445, 446 nomen dubium 3081 relation of A. aquasalis and 1913 in Kenya 3053 in drainage ditches, colonisation by 2103 Anopheles farauti in Liberia 1046 Coelomomyces couchii in, in Solomon Islands 1653 control of, for filariasis control 2113 in Nigeria 2096, 2101, 3045 in Yemen 332 Anopheles coustani oviposition in, inducing of 1614 Wuchereria bancrofti in, not developing 550 in dwellings in dwellings
in Nigeria 2101
in Yemen 332
in fish ponds, in Congo 2413
in grain stores, in Kenya 3053
in rice-fields, in Gambia 1330
mortality in, statistical analysis of 2673
multiple feeding in 2096 control of, for filariasis control 2113
host preferences of 1291
in Australia 1291
in Papua New Guinea 1917
in Solomon Islands 1653, 2113
physiological age of, assessing of 1917

Anopheles flavirostris
in Philippines 1321 Anopheles crucians
control of, biological 141, 1891
flight activity in 1331
in USA 141, 510, 1309, 1331, 1620,
1891, 3059 in rice-fields, in Louisiana 1620 on mortality in, effects of parasites on 2093 on man 510 parasitised by, Arrenurus pseudotenuicollis 2093

Tensaw virus in, in Alabama 510 traps for 1331 visual responses to 3059 water mites on mortality caused by Wuchereria bancrofti in, in Philippines on man in Central African Republic 3047 in Congo 2413 in Nigeria 2096 1321 Anopheles fluviatilis control of, insecticides for 149 DDT susceptibility in, testing of in India 149, 1627

Anopheles franciscanus control of, insecticides for 116 in USA 116 oviposition in, inducing of 1614 Plasmodium spp. in in Gambia 2099 refractoriness to 2427

| - | | 113 |
|--|--|---|
| Anopheles gambiae contd. | Anopheles maculipennis contd. | Anopheles nuneztovari contd. |
| taxonomy of, characters distinguishing A. arabiensis and 1336 | complex of contd. in France 2363 | in Brazil 1572, 2801 in Venezuela 3069 |
| vertical distribution of 1330 | in Georgia (USSR) 1064 | on man, in Brazil 2801 |
| Wuchereria bancrofti in, transmission of | Plasmodium spp. in, transmission of | taxonomy of, characters distinguishing A. |
| 1264 complex of | 825 taxonomy of, characters for 1581 | trinkae and 2767 Anopheles oswaldoi |
| control of, insecticides for 131 | Anopheles maculipennis maculipennis | in Brazil 2801 |
| DDT resistance in, in Angola 1641 | habitats of 1064 | on man, in Brazil 2801 |
| dieldrin resistance in, deliberately linked to Y chromosome 2721 | in USSR 333, 1064 taxonomy of, Anopheles beklemishevi | taxonomy of, distinct from A. metcalfi 3081 |
| mating in 169 | misidentified as, in Finland 2759 | Anopheles paludis |
| on man feeding preferences of 2738 | Anopheles maculipennis melanoon (see A. melanoon melanoon) | in Central African Republic 3047 in Congo 2739 |
| in Tanzania 131 | Anopheles maculipennis messeae (see A. | seasonal abundance of 2739 |
| Plasmodium spp. in, transmission of 825 | messeae) | Anopheles pharoensis |
| sex separation systems in 2427 | Anopheles maculipennis sacharovi (see A. sacharovi) | Brugia spp. in, in East Africa 550 B. malayi in, damage to 2371 |
| speciation in 2101 | Anopheles maculipennis subalpinus (see A. | cannibalism in 2763 |
| taxonomy of 537 Wuchereria bancrofti in, in Tanzania | melanoon subalpinus) Anopheles mangyanus, in Philippines 1321 | in Gambia 1330 in rice-fields, in Gambia 1330 |
| 131 | Anopheles marshallii | pharyngeal armature in 2371 |
| Anopheles gambiae × A. arabiensis, male sterility in, genetics of 1062 | complex of 537 chromosomes in 1901 | wertical distribution of 1330 Wuchereria bancrofti in, development of |
| Anopheles gambiae × A. melas, in Gambia | taxonomy of 1901 | 550 |
| Aponholos gambias × A quadriannulatus | Anopheles melanoon melanoon habitats of 1064 | Anopheles philippinensis |
| Anopheles gambiae × A. quadriannulatus, male sterility in, genetics of 1062 | in USSR 1064 | control of, insecticides for 2426, 3101 DDT resistance in |
| Anopheles gambiae species B (see A. | Anopheles melanoon subalpinus | in Bangladesh 2426 |
| Anopheles gambiae species C (see A. | habitats of 1064 in France 2363 | in India 3101 in Bangladesh 2426 |
| quadriannulatus) | in USSR 1064 | in India 1627, 3101 |
| Anopheles gorgasi, taxonomy of, nomen dubium 3081 | Anopheles melas flight speed in 2758 | on cattle, in India 3101 on man, in India 3101 |
| Anopheles hilli | in Gambia 2099, 2758 | Anopheles plumbeus |
| Culicinomyces spp. in, pathogenicity of | on man, in Gambia 2758 | descriptions of 1488 |
| 1093 development in | Anopheles meraukensis host preferences of 1291 | in Spain 1488, 1490 in tree holes, in Spain 1490 |
| effects of crowding on 534 | in Australia 1291 | Anopheles pretoriensis, oviposition in, |
| effects of salinity on 534 effects of temperature on 534 | Anopheles merus control of, insecticides for 131 | inducing of 1614 Anopheles pseudopunctipennis |
| fecundity in, effects of larval rearing | in Tanzania 131 | control of 3041 |
| conditions on 535 Anopheles hyrcanus | on man, in Tanzania 131 | distribution of 2286 in Mexico 3041 |
| control of, insecticides for 3048 | Wuchereria bancrofti in, in Tanzania 131 | insecticide resistance in 2286 |
| in Turkey 2364, 3048 | Anopheles messeae | Anopheles pulcherrimus |
| in USSR 9, 2106 insecticide resistance in 2364 | chromosome inversions in 775 chromosomes in, seasonal changes in | in Iraq 2757 in USSR 2106 |
| in Turkey 3048 | 1078 | insecticide resistance in 2427 |
| Issyk-Kul virus in 1559 seasonal abundance of 9 | control of, insecticides for 1558 enzymes in 2104, 2759 | on man, in Uzbekistan 2106 seasonal abundance of 2106, 2757 |
| Anopheles jamesii, taxonomy of, characters | in Finland 1581, 2104, 2759 | Anopheles punctipennis |
| distinguishing A. ramsayi and 1082 Anopheles koliensis | in Romania 1322 in USSR 9, 775, 1078, 1558 | control of, biological 1891 Dirofilaria immitis in, in Alabama 3085 |
| control of, for filariasis control 2113 | in Yugoslavia 446, 3042 | enzymes in 806 |
| in Solomon Islands 2113 Anopheles labranchiae, chromosomes in | seasonal abundance of 9 taxonomy of | in USA 806, 1891, 3085 Anopheles quadriannulatus, cross-mating of, |
| 818 | characters distinguishing A. | failure of X-chromosome recombination |
| Anopheles labranchiae atroparvus (see A. | beklemishevi and 2104, 2759 | in 3075 |
| atroparvus) Anopheles letifer | Anopheles messeae messeae, in drainage | Anopheles quadriannulatus × A. gambiae, male sterility in, genetics of 1062 |
| biology of 2755 | ditches, colonisation by 2103 | Anopheles quadrimaculatus |
| control of 2755 in Singapore 2755 | Anopheles metcalfi taxonomy of | attractants for, in human emanations 1292, 1879 |
| Anopheles maculatus | Anopheles noroestensis as synonym of | Coelomomyces punctatus in 2802 |
| biology of 2755 control of 2755 | 3081 A. oswaldoi distinct from 3081 | control of biological 141 |
| insecticides for 531 | Anopheles minimus | insecticides for 1066, 1467, 1615 |
| dam construction as affecting 2799 dark unspotted phenotype of 1630 | control of insecticides for 723 | eggs of, storing of 509 in USA 141, 1615, 1620 |
| in Malaysia 531 | to control malaria 723 | in rice-fields, in Louisiana 1620 |
| in Singapore 2755 | dam construction as affecting 2799 | Plasmodium simiovale in, infectivity of |
| in Thailand 2799 Plasmodium simiovale in, transmission of | in India 1627 in Japan 723 | RNA in, synthesis of 1325 |
| 1337 | in Thailand 2799 | Anopheles ramsayi |
| P. vivax in, transmission of 3079 Anopheles maculipennis | Anopheles moucheti in Central African Republic 3047 | chromosomes in 1924 in China 1082 |
| Coelomomyces iliensis in, not infective | in Congo 2836 | in India 1924 |
| 2377 control of, insecticides for 1558, 3048 | in dwellings, in Congo 2836 Anopheles multicolor, in Yemen 332 | taxonomy of characters distinguising A. jamesii and |
| DDT resistance in, in Moldavia 1558 | Anopheles nili | 1082 |
| hosts of 445 in France 2363 | in Central African Republic 3047 in Congo 1848, 2836 | relation of A. stephensi and 1924 |
| in Greece 2364 | in dwellings, in Congo 2836 | Anopheles rhodesiensis, taxonomy of, characters distinguishing A. cameroni |
| in Turkey 3048 | Anopheles nivipes | and 2768 |
| in USSR 1558 in Yugoslavia 445, 446, 3042 | in Thailand 1607 Mermithidae in, in Thailand 1607 | Anopheles rhodesiensis rupicolus, in Yemen 332 |
| insecticide resistance in 2364 | Anopheles noroestensis, taxonomy of, | Anopheles rufipes |
| in Turkey 3048 mouthparts in 162 | synonym of A. metcalfi 3081 Anopheles nuneztovari | in Gambia 1330 in rice-fields, in Gambia 1330 |
| complex of | breeding places of, diurnal variation in | vertical distribution of 1330 |
| electrophoresis for differentiating taxa in 2274 | physico-chemical properties of 3069 DDT resistance in, behavioural 1572 | Anopheles rupicolus (see A. rhodesiensis rupicolus) |
| AAA MAMI I | 22 I ronomico in, conarioulai 13/2 | * which wo |

| nopheles sacharovi | Anopheles stephensi contd. | Anoplura contd. |
|--|--|--|
| control of, insecticides for 3048 | Plasmodium contd. | vertebrate associations of, evolution of 2294 |
| DDT resistance in in Azerbaijan 2108 | P. cynomolgi in, infectivity of 528 P. gallinaceum in, effects of Microsporidia | Anourosorex squamipes, Tupaiopus |
| in Iraq 2757 | on 1910 | thailandicus on, in Thailand 3219 |
| DDT susceptibility in, seasonal variation | P. simiovale in, infectivity of 1337 | Ant (see Formicidae) |
| in 2108 | P. vivax in | Ant traps, Aedes spp. in, in Sabah 3169 |
| enzymes in 2364 | effects of Microsporidia on 1910 transmission of 3079 | Antarctica, Siphonaptera in 769 Anteater, Rhodnius pallescens on, in |
| feeding behaviour in, effects of DDT on 2107 | P. yoelii in, transmission of 1592 | Panama Canal Zone 21 |
| in Greece 2364 | rearing of, techniques for 2385 | Antechnius swainsonii, Rhodacantha nelsoni |
| in Iraq 2757 | red-eye mutant of 1619 | on, in Victoria 1216 |
| in Romania 1322 in Turkey 2364, 3048 | resting places of 540 rosy mutant of 3082 | Antelope Classing langinglyis on in Sierra Leone |
| in USSR 333, 2108 | seasonal abundance of 2757, 2776, 2777 | Glossina longipalpis on, in Sierra Leone 1379 |
| in dwellings, in Romania 1322 | swarming in 129 | Oestrinae on, in Africa 2474 |
| in Turkey 3048 | Anopheles stephensi stephensi chromosomes in 1924 | antennalis, Evania |
| seasonal abundance of 2757 | taxonomy of, relation of A. ramsayi and | antennata, Sergentomyia |
| Anopheles sergentii, in Yemen 332 | 1924 | antennatus, Culex Anthelmintics |
| Anopheles sinensis breeding places of 1319 | Anopheles strodei, taxonomy of 3081 Anopheles strodei albertoi, taxonomy of, not | in Musca domestica, interactions with |
| control of | distinct from A. strodei 3081 | nervous system of 691 |
| insecticides for 723 | Anopheles strodei arthuri, taxonomy of, not | sales of, in Finland 3243 |
| to control malaria 723 in Japan 168, 723, 821, 1319, 2740, 3071 | Anopheles strodei artigasi, taxonomy of, not | Anthocoridae, in Microtus arvalis nests, in |
| in South Korea 2357 | distinct from A. strodei 3081 | Hungary 1543 |
| in rice-fields | Anopheles strodei ramosi, taxonomy of, not | Anthomyiidae, in livestock farms, in |
| distribution pattern of 3071 | distinct from A. strodei 3081 | Bulgaria 877 9,10-Anthracenedione, 1,5-dihydroxy-2- |
| in Hokkaido 2740 in Honshu 1319 | Anopheles subpictus biology of 1587 | methyl-6-[(6-O-β-D-xylopyranosyl-β-D- |
| in Kyushu 168 | control of, insecticides for 149 | glucopyranosyl)oxy]- |
| in swamps, distribution pattern of 3071 | DDT susceptibility in, testing of 149 | against 422 |
| rearing of, techniques for 82 resting places of 3071 | in India 149, 2775 in Indonesia 1587 | Musca domestica 432 Periplaneta americana 432 |
| Tetrahymena spp. in, in South Korea | in Pakistan 2121 | Antibiotics, in rabbit, effects on Glossina |
| 2357 | on cattle, in Tamil Nadu 2775 | palpalis of 1121 |
| Anopheles stephensi Bacillus alvei in pathogenicity of 2769 | on man, in Tamil Nadu 2775 population dynamics of 2121 | Antibodies to Amblyomma maculatum, in rabbit |
| B. brevis in, pathogenicity of 2769 B. brevis in, pathogenicity of 2769 | Anopheles sundaicus | 3205 |
| Beauveria tenella in, pathogenicity of | biology of 1587, 2755 | to Dermatophagoides pteronyssinus, in |
| 2772 | control of 2755 in India 1627 | man 1217 |
| Brugia spp. in, development of exsheathed | in Indonesia 1587 | to Glossina morsitans, in rabbit 1934 to Hypoderma bovis, in cattle 1125, |
| microfilariae of 345 | in Singapore 2755 | 2475 |
| B. malayi in, damage to 2371 | Anopheles superpictus | to Hypoderma lineatum, in cattle 2475 |
| cell cultures from 2976 chromosomes in, effects of y-irradiation | in Greece 2364 in Iraq 2757 | to Ixodes ricinus, in rabbit 1751 to kelevan, in fowl 2885 |
| on 514 | insecticide resistance in 2364 | to Sarcoptes scabiei, in man 677 |
| control of 540 | seasonal abundance of 2757 | Anticoagulants, in Glossina morsitans saliva |
| insecticides for 296, 695, 1289, 1909, 2384, 2757, 2776 | Anopheles tenebrosus Dirofilaria immitis in, in East Africa 550 | 2437 Antifeedants, substances tested as: parthenin |
| dispersal of 129 | Wuchereria bancrofti in, not developing | 1805 |
| enzymes in 2364, 2435 | 550 | Antigens |
| Fusarium oxysporum in, pathogenicity of 2772 | Anopheles triannulatus, taxonomy of, variability of 3081 | of Aedes aegypti 14 of Amblyomma maculatum 20 |
| glutathione in, extracellular 2435 | Anopheles triannulatus bachmanni, | of Dermacentor andersoni 1180 |
| greenish brown-larva mutant of 1619 | taxonomy of, not distinct from A. | of Dermatophagoides farinae 285 |
| hemolymph in amino acids in 1048 | triannulatus 3081 Anopheles triannulatus davisi, taxonomy of, | of Dermatophagoides pteronyssinus 285, 1790, 2568 |
| carbohydrates in 1049 | not distinct from A. triannulatus 3081 | Antilope cervicapra, Ixodidae on, in Assam |
| volume of 1332 | Anopheles triannulatus perezi, taxonomy of, | 48 |
| in India 540, 1297, 1627, 1909, 2364, | not distinct from A. triannulatus 3081 Anopheles trinkae, taxonomy of, characters | Antilopinae, Oestrinae on, in Africa 2474 Antimycin A, in Trypanosoma theileri, |
| 2770, 2775, 2776, 2777, 3102 in Iran 1289, 2364 | distinguishing A. nuneztovari and 2767 | inhibiting oxygen uptake 1388 |
| in Iraq 2757 | Anopheles vagus | Antipodes Island, Siphonaptera in 769 |
| in Pakistan 129 in cattle sheds, in Pakistan 129 | bacteria in, in Thailand 1606 | Antiseptics, role in control of Acari of |
| in dwellings, in Iran 1289 | in Thailand 1606 Microsporidia in, in Thailand 1606 | 2548 Antivenins, to Latrodectus mactans venom |
| in wells, in Tamil Nadu 1297, 2776, | Anopheles varuna | 289 |
| 2777 | breeding places of 1297 | Antricola, in Cuba 406 |
| life-span in 129 | in India 1297, 1627 in wells, in Tamil Nadu 1297 | aokii, Simulium Apamin |
| mating in 129 | Anopheles ziemanni | in Apis mellifera venom, properties of |
| Metarhizium anisopliae in, pathogenicity | feeding behaviour in 2739 | 1739 |
| of 2772 methoprene in, effects of 128 | in Central African Republic 3047 in Congo 2739 | in rat, effects on brain of 1422 apertum, Leptotrombidium |
| Nosema algerae in | seasonal abundance of 2739 | Aphanius dispar |
| in Tamil Nadu 2770 | Anophelinae | feeding behaviour in 1339 |
| infectivity of 612 | behaviour patterns in 537 | preying on, Culicidae 1339 |
| pathogenicity of 2770 on Asian buffalo, in Pakistan 129 | chromosomes in, preparing of 1899 in Tamil Nadu 1912 | Aphidoidea insecticides in, selectivity of 1461 |
| on cattle, in Tamil Nadu 2775 | taxonomy of 2100 | outbreaks of 471 |
| on man, in Tamil Nadu 2775 | characters for 352 | Aphis gossypii, biology of 986 |
| pharyngeal armature in 2371 | Anoplura in New Jersey 28 | Aphodius Aphodius 2192 |
| Plasmodium berghei in | on domestic animals, diagnosing of, book | flight activity in 2892 |
| effects on hemolymph amino acids of | 977 | in cattle dung, in Finland 636 |
| effects on hemolymph carbohydrates of | on game, book 2261 on small mammals | in dung communities of 3183 |
| 1049 | in Bulgaria 1287 | in Finland 2892 |
| isolating of 927, 2369 | in Poland 1498 | Aphodius haemorrhoidalis |
| not affecting hemolymph volume 1332 | on Synaptomys cooperi, in Indiana 1424 | in USA 2989 |

| Anhading haamawhaidalig contd | Anadamus flavicallis | Aubarrimana aantd |
|---|---|--|
| Aphodius haemorrhoidalis contd. | Apodemus flavicollis | Arboviruses contd. |
| in cattle dung, effects on bacteria and | arthropod parasites of, in Byelorussia | in |
| fungi of 2989 | 639 | Aedes spp., in Nigeria 533 |
| Aphodius lividus | Laelaps agilis on, in Romania 672 | arthropod cell lines, replication of |
| in Egypt 2156 | Siphonaptera on, host transfer by 1032 | 2976 |
| in dung, in Egypt 2156 | Apodemus giliacus, Gamasidae on, in | Culicidae, in Czechoslovakia 126 |
| Aphodius rufipes | Hokkaido 2009 | in Malagasy Republic 2408 |
| in Denmark 913, 1421 | Apodemus latronum | vectors of 2961 |
| in cattle dung, in Denmark 1421 | | Archaeopsylla erinacei maura |
| | Amphipsylla tuta on, in Yunnan Province | |
| in pastures, removal of cattle dung by | 1545 | in Spain 312 |
| 913 | Frontopsylla tomentosa on, in China | on small mammals, in Balearic Islands |
| reproductive strategy of 1421 | 1034 | 312 |
| Aphodius scabriceps | Apodemus speciosus | variability in 312 |
| in USA 2989 | Leptotrombidium subintermedium on, in | arcuatus, Chortoglyphus |
| in cattle dung, effects on bacteria and | China 2638 | Arcyophora longivalvis |
| fungi of 2989 | Neotrombicula talmiensis on, in China | in Saudi Arabia 1236 |
| | 2638 | |
| Aphodius vittatus | Trombiculidae on, in Kyushu 2925 | on camel, in Saudi Arabia 1236 |
| in USA 2989 | Apodemus sylvaticus | Ardap (see Cypermethrin) |
| in cattle dung, effects on bacteria and | arthropod parasites of, in Byelorussia | arenaria, Dolichovespula (Vespula) |
| fungi of 2989 | 639 | arenaria, Vespula (see Dolichovespula |
| Apholate (2,2,4,4,6,6-hexakis(1-aziridinyl)- | Ixodes trianguliceps on, development of | arenaria) |
| 2,2,4,4,6,6-hexahydro-1,3,5,2,4,6- | 652 | Argas |
| triazatriphosphorine) | Laelaps agilis on | biomedical knowledge of 2577 |
| resistance to, in, Musca domestica, | in Romania 672 | cuticle surface in 2612 |
| biological characteristics associated | in Sweden 672 | neotrichoidal chaetom in 2612 |
| | | |
| with 868 | Leptotrombidium spp. on, in Tadzhikistan | Argas arboreus |
| apicalis, Cuterebra | 932 | aggregation pheromone in 2580 |
| apicata, Cephenemyia | L. alpinum on, in Yunnan Province | egg-hatch in, effects of γ-irradiation on |
| Apidae | 1213 | 1767 |
| in Nansei Islands 712 | Myocoptidae on, in Spain 1478 | fecundity in |
| venoms of 1257 | Nosopsyllus fasciatus on, in Spain 329 | effects of crowding on 409 |
| volatile signals in, complexity of 32 | aponommoides, Haemaphysalis | effects of y-irradiation on 1767 |
| | Apparatus | mating competitiveness in, effects of γ- |
| Apion ulicis, on Ulex, and biological control | actograph for insects 6 | irradiation on 1760 |
| using, in Chatham Islands 2288 | cage for individual insects 2260 | mortality in, effects of γ-irradiation on |
| Apis mellifera | constant-temperature chamber 3 | 1760 |
| allergens of 1506 | dissection knives for entomology 958 | progeny of, effects of y-irradiation on |
| preparing of 241 | dual-port olfactometer 1292 | 1767 |
| enzymes in 241, 403, 633, 1173, 1420, | for feeding blood-meals with additives to | Quaranfil virus in, transmission of 2903 |
| 1502, 1738, 2540 | arthropods 1542 | salivary glands in, functional morphology |
| growth regulators in, degradation of | for injecting liquids into arthropods 437 | of 1983 |
| 1502 | for sampling floodwater mosquito larvae | sterilisation of, γ -irradiation for 1760 |
| hemolymph in, coagulation of 1824 | 2123 | |
| in Australia 1506 | | Argas brumpti, aggregation pheromone in 2580 |
| | for sampling mosquito larvae 1877 | |
| insecticide hazards to, review 163 | for separating invertebrates from leaf litter | Argas cooleyi |
| on man | 1812 | aggregation pheromone in 2580 |
| antibodies to 2542 | portable paraffin sprayer 959 | Sapphire virus II in 2974 |
| hypersensitivity to 1506, 2534, 2541 | self-marking device for Culicidae 1890 | temperature responses in 1766 |
| diagnosis of 2035, 2198, 2201, 3182, | appendiculatus, Rhipicephalus | Argas hermanni |
| 3185 | appendigaster, Evania | aggregation pheromone in 2580 |
| treatment of 401, 634, 1971, 2543, | Appetite disorders, in cattle, caused by | Quaranfil virus in, transmission of 2903 |
| 3184 | Theileria 2225 | Argas magnus |
| sulfenyl-propoxur in | Aprostatandrya macrocephala, in, Oribatei, | descriptions of 245 |
| metabolism of 904 | development of 2011 | in Colombia 245 |
| penetration of 904 | apterus, Pyrrhocoris | in Ecuador 245 |
| taxonomy of, characters distinguishing | aquasalis, Anopheles | in dove cotes, in Colombia 245 |
| Vespula germanica and 2535 | Aquatic ecosystems, Culicidae in, role of | in fowl houses, in Colombia 245 |
| venom of 401, 403, 1173, 1420, 1422, | 2756 | taxonomy of 245 |
| 1738, 1971, 2197, 2201, 2534, 2539, | arabicus, Phlebotomus chinensis | Argas persicus |
| 2540, 2541, 2542, 2543, 2988, 3182, | arabiensis, Anopheles | aggregation pheromone in 2580 |
| 3184, 3185 | Arachidonic acid (see 5,8,11,14- | bacteria in, in Pakistan 1996 |
| allergens of 2198 | | |
| | Eicosatetraenoic acid, (all-Z)-) | Borrelia anserina in, in Pakistan 3193 |
| peptides in 1739 | Araeopsylla elbeli | Congo virus in, trans-stadial survival of |
| review 633 | in China 2343 | 1442 |
| whole-body extracts of, immunologic | on Taphozous melanopogon, in China | control of, acaricides for 640, 1177, |
| activity of 241 | 2343 | 2042, 2675 |
| Aplocheilus latipes, preying on, Culex | Araeopsylla gestroi | cuticle surface in 2612 |
| pipiens 339 | in Spain 1493 | in India 640, 1177 |
| Aplodontopus sciuricola | on Tadarida teniotis, in Spain 1493 | in Iran 2903 |
| in USA 1800 | arakawae, Simulium | in Iraq 3211 |
| on Tamias striatus, in Indiana 1800 | arakawai, Culicoides | in Pakistan 1996, 3193 |
| apodemi, Criniscansor | Araneae | in Sudan 2227 |
| apodemi, Hirstionyssus (see H. sunci) | in Nansei Islands 721 | in USSR 2042, 2675 |
| apodemi, Trichoecius | in North America, book 1458 | in fowl houses, in Madhya Pradesh 640 |
| Apodemus agrarius | in Saudi Arabia 2990 | in poultry farms, in Pakistan 1996 |
| Amphipsylla tuta on, in Yunnan Province | in USA, book 2998 | life history of 1442 |
| 1545 | on man, in Yugoslavia 1221 | neotrichoidal chaetom in 2612 |
| arthropod parasites of | preyed on by, Chalybion californicum, in | on fowl |
| in Byelorussia 639 | Oklahoma 2025 | development of 2227 |
| in Soviet Far East 1744 | venoms of 1257 | in Iran 2903 |
| Chatia hertigi on, in China 2638 | Aransas Bay virus | in Madhya Pradesh 640 |
| Herpetacarus hastoclavus on, in Yunnan | characterization of 2622 | paralysis caused by 1177 |
| 2913 | in, Ornithodoros capensis, in Texas 2622 | |
| | | on pigeon, in Iraq 3211 |
| Leptotrombidium gemiticulum on, in | arboricola Fulgalans | on poultry, in Pakistan 3193 |
| China 2638 | arboricola, Eulaelaps | Argas polonicus |
| L. subintermedium on, in China 2638 | Arboricola, Ixodes | sp. nov., description of 1181 |
| Neotrombicula talmiensis on, in China | Arborimus albipes, mites on, in Oregon | in Poland 1181, 2588 |
| 2638 | 2232 | in pigeon nests, in Poland 2588 |
| Palaeopsylla obtuspina on, in Szechwan | Arborimus longicaudus, mites on, in Oregon | on pigeon, in Poland 1181 |
| Province 1033 | 2232 | taxonomy of, variability of characters for |
| Apodemus argenteus, Trombiculidae on, in | Arboviruses | 2588 |
| Kyushu 2925 | diagnosis of 2980 | temperature preferences in 2589 |

| Argas reflexus | Armillifer armillatus | Ascoschoengastia indica, taxonomy of, |
|---|--|--|
| distribution of 457 | in Ghana 2936 | chaetotaxy 2581 |
| hygienic importance of 457 | in Ivory Coast 2664 | Ascoschoengastia latyshevi |
| taxonomy of, characters distinguishing A. | on man | in China 2638 |
| polonicus and 1181 | affecting eyes 1241 | on Eutamias sibiricus, in China 2638 |
| Argas sanchezi, Borrelia anserina in, | in Ghana 2936 | Ascoschoengastia maculata |
| transmission of 405 | Armillifer grandis | sp. nov., description of 1449 |
| Argas tridentatus, Haller's organ in 915 | in Ivory Coast 2664 | in Papua New Guinea 1449 |
| Argas vulgaris in Iran 2903 | on man, death caused by 2664 Armillifer moniliformis, on man, affecting | on Marsupialia, in Papua New Guinea 1449 |
| Quaranfil virus in, in Iran 2903 | eyes 1241 | Ascoschoengastia mukoyamai |
| taxonomy of, characters distinguishing A. | arpaklensis, Sergentomyia (see S. dentata) | sp. nov., description of 942 |
| polonicus and 1181 | Arrenurus, parasitising, Anopheles annularis, | in Japan 942 |
| Argas walkerae | in India 3102 | on Nyctalus lasiopterus, in Honshu 942 |
| control of, acaricides for 2904 | Arrenurus pseudotenuicollis | on Vespertilio orientalis, in Honshu 942 Ascoschoengastia narai |
| paralysis caused by, mechanism of 2211 | host mortality as affected by 2093 | sp. nov., description of 942 |
| Argasidae | parasitising, Anopheles crucians 2093 | in Japan 942 |
| biomedical knowledge of 2577 Borrelia spp. in, transmission of 411 | Arsenic acid, in Musca domestica, not affecting secretion by Malpighian tubules | on Vespertilio orientalis, in Honshu 942 |
| Chim virus in, in Uzbekistan 1747 | 3178 | Ascoschoengastia sepikensis |
| cleaning of, for SEM 1768 | Arsenicals | sp. nov., description of 1449 in Papua New Guinea 1449 |
| in Afghanistan 2993 | against, pests of sheepskin 909 | on Marsupialia, in Papua New Guinea |
| in Malagasy Republic 2408 | in cattle, poisoning by 3252, 3253 | 1449 |
| in Rhombomys opimus burrows, in | artemis, Actias | Asellia tridens, Leptocimex vespertilionis or |
| Uzbekistan 1747 | Artemisia taurica, repellent activity of | in Iraq 2711 |
| water relations of 1979 argenteopunctatus, Aedes | extracts of 246 Arthritis, infectious | Asellus, preying on, Romanomermis culicivorax 106 |
| Argentina | causal agent | asiaticum, Hyalomma |
| Cheyletiella parasitivorax in, on dog | in | Asiochirus, taxonomy of 1774 |
| 2657 | Ixodes dammini, transmission of | L-Aspartic acid |
| Latrodectus spp. in 424, 2026 | 2629 | in Locusta migratoria, effects on motor |
| Psoroptes ovis in on cattle 284 | man, in USA 2629 ticks associated with 2619 | activity of l in Lucilia sericata, not affecting motor |
| on sheep 284 | Arthropods | activity 1 |
| Triatoma infestans in, natural enemies of | atmospheric water absorption in, review | in Lucilia sericata hemolymph, fate of |
| 493 | 997 | 618 |
| Arginine phosphokinase (see Kinase | blood-sucking, in vitro feeding, review 7 cuticle in, water flux through 2307 | Aspergillus flavus, in, Ephestia kuehniella, transmission of 482 |
| (phosphorylating), arginine) | diseases caused by, population biology of | Aspergillus glaucus, group of, in, house dus |
| L-Arginine | 311 | in Netherlands 2565 |
| in Aedes aegypti, as nitrogenous waste | identifying of, techniques for 436 | Aspergillus penicilloides, in, house dust, |
| product 1628 in Anopheles stephensi hemolymph, | integument in, water-vapour diffusion through 2982 | interactions with mites of 2565 Aspergillus restrictus, group of, in, house |
| effects of <i>Plasmodium berghei</i> on | locomotion in choice chambers, model | dust, in Netherlands 2565 |
| 1048 | 2983 | assimilis, Muscina |
| argus, Simulium | mycobacteria in, in West Germany 738 | Assio flammeus, Lucilia sericata on, in |
| argyreatum, Simulium | population age distribution in 504 | Austria 1134 |
| argyritarsis, Anopheles argyrostoma, Parasarcophaga (see | Artona funeralis in Japan 710 | Astegopteryx styracicola in Taiwan 764 |
| Sarcophaga argyrostoma) | on man, effects of 710 | on man, bites by 764 |
| argyrostoma, Sarcophaga (Parasarcophaga) | Arvicola terrestris | on mouse, bites by 764 |
| ariasi, Phlebotomus | Glycyphagus helveticus in nests of, in | on Styrax suberifolia, in Taiwan 764 |
| Aride virus, in, Amblyomma loculosum 2966 | Switzerland 1451 Listrophorus occitanus on | soldiers of 764 asthenogmus, Tetrastichus |
| arisana, Caligula japonica | in France 274 | Asthma |
| arisana, Dictyoploca japonica (see Caligula | in Spain 274 | in man |
| japonica arisana) | Arylamidase (see Amidase, amino acid aryl-) | caused by Periplaneta americana 232 |
| aristatoclavus, Herpetacarus Aristolochic acid, in Musca domestica, | Assobial (see Rengois asid phenylmethyl | caused by storage mites 1207 role of Blattella germanica in 2701 |
| effects on chromosomes of 2864 | Ascabiol (see Benzoic acid, phenylmethyl ester) | role of house-dust mites in 422, 1217 |
| Arizona | Ascaris, in, man, hypersensitivity to 1798 | 1798, 3222 |
| Geomydoecus spp. in, on Thomomys | Ascidae | role of mites in 2920 |
| 1841 | in house dust | astia, Xenopsylla |
| Hybomitra phaenops in 1711 Triatoma protracta in, flagellates in 2705 | in Brazil 1453 in Peru 273 | astictopus, Chaoborus Astigmata |
| Triatominae in, in Neotoma dens 66 | Ascocystis culicis | in Falco sparverius nests, in New York |
| arizonae, Neotrichodectes | in | 1991 |
| Arkansas | Aedes aegypti | in Otus asio nests, in New York 1991 |
| Culex quinquefasciatus in, viruses in | effects on <i>Dirofilaria immitis</i> of | pretarsi in 279 |
| 3032 Onthophagus spp. in, in dung 2200 | 1092 pathogenicity of 1092 | Asuntol (see Coumaphos) Atelepalme ralfi |
| Ornithonyssus sylviarum in, on fowl | A. albopictus, in South Korea 2357 | sp. nov., description of 278 |
| 2922 | Armigeres subalbatus, in South Korea | in Venezuela 278 |
| Armigeres | 2357 | on Calomys laucha, in Venezuela 278 |
| Coelomomyces spp. in, in Thailand 1607 in Indonesia 2090 | Ascocystites barretti, in, Aedes triseriatus, not affecting infectivity of La Crosse | on Sylvilagus floridanus, in Venezuela 278 |
| Armigeres durhami, control of, growth | virus 1647 | Atelepalme smarma |
| regulators for 508 | L-Ascorbic acid | in Venezuela 278 |
| Armigeres subalbatus | in Musca domestica, effects on radiation- | taxonomy of, characters distinguishing A |
| Ascocystis culicis in, in South Korea 2357 | induced delayed pupariation of 1949 in <i>Musca domestica</i> diet, effects on | ralfi and 278 aterrima, Smittia |
| bacteria in, in Thailand 1606 | pupation of 622 | Atherurus africanus, Herpetacarus makoko |
| Brugia malayi in, transmission of 2405 | 6-hexadecanoate, in Culex pipiens diet, as | on, in Gabon 2931 |
| B. pahangi in, development of 517 | antioxidant for arachidonic acid 1906 | athiasae, Pygmephorus (see Siteroptes |
| Eugregarina in, in Thailand 1606 in South Korea 2357 | Ascoschoengastia habitats of 1772 | athiasae) athiasae, Siteroptes (Pygmephorus) |
| in Thailand 1606 | on mammals, in Papua New Guinea | atlanticus, Aedes |
| Nosema algerae in, pathogenicity of | 1772 | atlanticus, Chrysops |
| 2770 Romanomermis culicivoray in infectivity | Ascoschoengastia audyi | ATP (see Adenosine 5'-(tetrahydrogen |
| Romanomermis culicivorax in, infectivity of 822 | in Malaysia 3217 on small mammals, in West Malaysia | triphosphate)) ATPase (see Phosphatase, adenosine tri-) |
| armillatus, Armillifer | 3217 | atra, Copromyza |
| | | |

| Subject Hidex | | 445 |
|--|--|--|
| Atrax robustus, venom of, components of | Austrosimulium australense contd. | Babesia bovis |
| 2660 | on man, in New Zealand 2145 | in |
| Atrazine (6-chloro-N-ethyl-N'-(1- | Austrosimulium bancrofti | Boophilus microplus |
| methylethyl)-1,3,5-triazine-2,4-diamine) | habitats of 845 | development of 924 |
| in Musca domestica, effects on fate of carbofuran of 1947 | in Australia 845 Austrosimulium mirabile, labro-cibarial | transmission of 719 cattle, in Nansei Islands 719 |
| Atrichopogon, in Cayman Islands 1658 | sensilla and armature in 187 | man 3191 |
| Atroban (see Permethrin) | Austrosimulium pestilens | in Europe 250 |
| atropalpus, Aedes | in Australia 561 | Babesia caballi, in, Anocentor nitens, |
| atroparvus, Anopheles | mating in 561 | transmission of 2576 |
| Atropine | resting places of 561 | Babesia canis |
| in cat, counteracting effects of Vespa orientalis venom 632 | swarming in 561 | in |
| in cattle, blocking stimulation of | autumnalis, Musca | Dermacentor reticulatus, development |
| epinephrine secretion by Leiurus | autumnalis, Neotrombicula (Trombicula) autumnalis, Trombicula (see Neotrombicula | of 1432 Rhipicephalus sanguineus, transmission |
| quinquestriatus venom 683 | autumnalis) | of 920 |
| in Periplaneta americana, blocking | Avermectins | Babesia divergens |
| trochanteral hairplate afferents 3013 in rat | against | epidemiology of 2005 |
| partially overcoming effects of | Cuterebra spp., on mouse 862 | in |
| pyrethroids 435 | C. fontinella, on mouse 18 | cattle |
| preventing stimulation of gastric | Lucilia cuprina, on sheep 2175 insecticidal activity of 18 | immunization against 2625 in Northern Ireland 2005 |
| secretion by <i>Tityus serrulatus</i> venom 290 | Avocado (Persea americana) | in UK 2210 |
| atropos, Anopheles | Avocado orchards, Heteropoda venatoria in, | Ixodes ricinus, transmission of 2625 |
| Atta vollenweideri | in USA 1223 | man 3191 |
| in Paraguay 2202 | axillicolus, Culex | in Europe 250 |
| in pastures, damage caused by 2202 | Axis axis, Ancistropsylla nepalensis on, in | Babesia microti |
| Attractants | Nepal 3025 | control of, vector control for 250 |
| insect control using, review 470 | Azamethiphos (S-[(6-chloro-2- | Ixodes dammini, transmission of 250, |
| role in control of Acari of 2548 | oxooxazolo[4,5-b]pyridin-3(2H)- yl)methyl] O,O-dimethyl | 2003, 2575, 2629, 3191 |
| synonyms of 954 | phosphorothioate) | I. ricinus, transmission of 3187 |
| Atylotus, in USSR 1135 | against | man 250 2575 2101 |
| Atylotus fulvus, Toxoplasma spp. in, persistence of 2528 | Glossina fuscipes 2465 | in Massachusetts 250, 2575, 3191 in USA 2629 |
| Atylotus horvathi | G. palpalis 2465 | Microtus agrestis, in West Germany |
| descriptions of 232 | G. tachinoides 2465 | 3187 |
| in USSR 232 | 1H-Azepine, 1,1'-carbonylbis[hexahydro-, | M. pennsylvanicus, in Massachusetts |
| Atylotus miser | repellent for, Aedes aegypti 2742 | 2575 |
| descriptions of 232 in USSR 232 | 1H-Azepine, hexahydro-1-[(2- methylcyclohexyl)carbonyl]- | Odocoileus virginianus, not infective 1998 |
| Atylotus plebeius sibiricus | repellent for | Peromyscus spp., in Massachusetts |
| descriptions of 232 | Culicoides hollensis, on man 2808 | 3191 |
| in USSR 232 | C. mississippiensis, on man 2808 | P. leucopus, in Massachusetts 250, |
| Auckland Islands, Siphonaptera in 769 | Azide, in Musca domestica, inhibition of | 2575 |
| audyi, Ascoschoengastia augur, Calliphora | ATPase by 1324 Azinphos-ethyl (O,O-diethyl S-[(4-oxo-1,2,3- | babu, Sergentomyia Bacillus |
| auratus, Dermacentor | benzotriazin-3(4H)-yl)methyl] | in |
| aureohirtum, Simulium | phosphorodithioate) | Aedes aegypti, pathogenicity of 536 |
| aurescens, Helicobia | resistance to, in, Musca domestica, in | Argas persicus, in Pakistan 1996 |
| aureum, Eusimulium (Simulium) aureum, Simulium (see Eusimulium aureum) | West Germany 3160, 3167 Azinphosethyl (see Azinphos-ethyl) | Bacillus alvei |
| auribarbis, Cephenemyia | Aziridine, 1,1'-(cyclohexylphosphinothioylid- | Aedes aegypti, pathogenicity of 2769 |
| aurifer, Aedes | ene)bis-, in Lucilia cuprina, effects on | Anopheles stephensi, pathogenicity of |
| aurifinis, Oxysarcodexia | ovarian development of 1404 | 2769 |
| aurifluus, Toxorhynchites auris, Raillietia | Aziridine, 1,1',1"-phosphinothioylidynetris- (see Thiotepa) | Culex quinquefasciatus, pathogenicity of 2769 |
| auritulus, Ixodes | Aziridine, 1,1',1"-phosphinylidynetris- (see | Culicinae, in Tamil Nadu 2769 |
| auropunctata, Wasmannia | Tepa) | Bacillus brevis |
| austeni, Culicoides | Aziridine, 1,1',1"-phosphinylidynetris[2- | in |
| austeni, Glossina | | |
| | methyl- (see Metepa) | Aedes aegypti, pathogenicity of 2769 |
| australasiae, Periplaneta | 1-Aziridinecarboxamide, N,N'-1,6- | Aedes aegypti, pathogenicity of 2769 Anopheles stephensi, pathogenicity of |
| australense, Austrosimulium | | Aedes aegypti, pathogenicity of 2769 Anopheles stephensi, pathogenicity of 2769 |
| australense, Austrosimulium Australia (see also individual States and Territories) | 1-Aziridinecarboxamide, N,N'-1,6- hexanediylbis- in Lucilia cuprina effects on development of 606 | Aedes aegypti, pathogenicity of 2769 Anopheles stephensi, pathogenicity of 2769 Culex quinquefasciatus, pathogenicity of 2769 |
| australense, Austrosimulium Australia (see also individual States and Territories) biological control in 2310, 2312 | 1-Aziridinecarboxamide, N,N'-1,6- hexanediylbis- in Lucilia cuprina effects on development of 606 effects on ovarian development of | Aedes aegypti, pathogenicity of 2769 Anopheles stephensi, pathogenicity of 2769 Culex quinquefasciatus, pathogenicity of 2769 Culicinae, in Tamil Nadu 2769 |
| australense, Austrosimulium Australia (see also individual States and Territories) biological control in 2310, 2312 insecticide use in 451 | 1-Aziridinecarboxamide, N,N'-1,6- hexanediylbis- in Lucilia cuprina effects on development of 606 effects on ovarian development of 1404 | Aedes aegypti, pathogenicity of 2769 Anopheles stephensi, pathogenicity of 2769 Culex quinquefasciatus, pathogenicity of 2769 Culicinae, in Tamil Nadu 2769 Bacillus pestis (see Yersinia pestis) |
| australense, Austrosimulium Australia (see also individual States and Territories) biological control in 2310, 2312 insecticide use in 451 Latrodectus mactans in, on man 1459 | 1-Aziridinecarboxamide, N,N'-1,6-hexanedylbis- in Lucilia cuprina effects on development of 606 effects on ovarian development of 1404 sterilant for, Lucilia cuprina 608 | Aedes aegypti, pathogenicity of 2769 Anopheles stephensi, pathogenicity of 2769 Culex quinquefasciatus, pathogenicity of 2769 Culicinae, in Tamil Nadu 2769 Bacillus pestis (see Yersinia pestis) Bacillus popilliae, gene transfer from B. |
| australense, Austrosimulium Australia (see also individual States and Territories) biological control in 2310, 2312 insecticide use in 451 | 1-Aziridinecarboxamide, N,N'-1,6- hexanediylbis- in Lucilia cuprina effects on development of 606 effects on ovarian development of 1404 | Aedes aegypti, pathogenicity of 2769 Anopheles stephensi, pathogenicity of 2769 Culex quinquefasciatus, pathogenicity of 2769 Culicinae, in Tamil Nadu 2769 Bacillus pestis (see Yersinia pestis) |
| australense, Austrosimulium Australia (see also individual States and Territories) biological control in 2310, 2312 insecticide use in 451 Latrodectus mactans in, on man 1459 man in, arthropod pests of 1506 Muscoidea in, in cattle dung 1681 Scarabaeidae in, mites on 2893 | 1-Aziridinecarboxamide, N,N'-1,6-hexanediylbis- in Lucilia cuprina effects on development of 606 effects on ovarian development of 1404 sterilant for, Lucilia cuprina 608 azteca, Hyalella | Aedes aegypti, pathogenicity of 2769 Anopheles stephensi, pathogenicity of 2769 Culex quinquefasciatus, pathogenicity of 2769 Culicinae, in Tamil Nadu 2769 Bacillus pestis (see Yersinia pestis) Bacillus popilliae, gene transfer from B. thuringiensis to 2277 Bacillus sphaericus against |
| australense, Austrosimulium Australia (see also individual States and Territories) biological control in 2310, 2312 insecticide use in 451 Latrodectus mactans in, on man 1459 man in, arthropod pests of 1506 Muscoidea in, in cattle dung 1681 Scarabaeidae in, mites on 2893 Sepsidae in 3158 | 1-Aziridinecarboxamide, N,N'-1,6- hexanediylbis- in Lucilia cuprina effects on development of 606 effects on ovarian development of 1404 sterilant for, Lucilia cuprina 608 azteca, Hyalella Babesia epidemiology of, review 2210 in | Aedes aegypti, pathogenicity of 2769 Anopheles stephensi, pathogenicity of 2769 Culex quinquefasciatus, pathogenicity of 2769 Culicinae, in Tamil Nadu 2769 Bacillus pestis (see Yersinia pestis) Bacillus popilliae, gene transfer from B. thuringiensis to 2277 Bacillus sphaericus against Anopheles albimanus 1569 |
| australense, Austrosimulium Australia (see also individual States and Territories) biological control in 2310, 2312 insecticide use in 451 Latrodectus mactans in, on man 1459 man in, arthropod pests of 1506 Muscoidea in, in cattle dung 1681 Scarabaeidae in, mites on 2893 Sepsidae in 3158 australicus, Culex | 1-Aziridinecarboxamide, N,N'-1,6-hexanediylbis- in Lucilia cuprina effects on development of 606 effects on ovarian development of 1404 sterilant for, Lucilia cuprina 608 azteca, Hyalella Babesia epidemiology of, review 2210 in Boophilus spp., transmission of 2682, | Aedes aegypti, pathogenicity of 2769 Anopheles stephensi, pathogenicity of 2769 Culex quinquefasciatus, pathogenicity of 2769 Culicinae, in Tamil Nadu 2769 Bacillus pestis (see Yersinia pestis) Bacillus popilliae, gene transfer from B. thuringiensis to 2277 Bacillus sphaericus against Anopheles albimanus 1569 Culex quinquefasciatus 1569 |
| australense, Austrosimulium Australia (see also individual States and Territories) biological control in 2310, 2312 insecticide use in 451 Latrodectus mactans in, on man 1459 man in, arthropod pests of 1506 Muscoidea in, in cattle dung 1681 Scarabaeidae in, mites on 2893 Sepsidae in 3158 australicus, Culex australis, Aedes | 1-Aziridinecarboxamide, N,N'-1,6-hexanediylbis- in Lucilia cuprina effects on development of 606 effects on ovarian development of 1404 sterilant for, Lucilia cuprina 608 azteca, Hyalella Babesia epidemiology of, review 2210 in Boophilus spp., transmission of 2682, 2683 | Aedes aegypti, pathogenicity of 2769 Anopheles stephensi, pathogenicity of 2769 Culex quinquefasciatus, pathogenicity of 2769 Culicinae, in Tamil Nadu 2769 Bacillus pestis (see Yersinia pestis) Bacillus popilliae, gene transfer from B. thuringiensis to 2277 Bacillus sphaericus against Anopheles albimanus 1569 |
| australense, Austrosimulium Australia (see also individual States and Territories) biological control in 2310, 2312 insecticide use in 451 Latrodectus mactans in, on man 1459 man in, arthropod pests of 1506 Muscoidea in, in cattle dung 1681 Scarabaeidae in, mites on 2893 Sepsidae in 3158 australicus, Culex | 1-Aziridinecarboxamide, N,N'-1,6-hexanediylbis- in Lucilia cuprina effects on development of 606 effects on ovarian development of 1404 sterilant for, Lucilia cuprina 608 azteca, Hyalella Babesia epidemiology of, review 2210 in Boophilus spp., transmission of 2682, | Aedes aegypti, pathogenicity of 2769 Anopheles stephensi, pathogenicity of 2769 Culex quinquefasciatus, pathogenicity of 2769 Culicinae, in Tamil Nadu 2769 Bacillus pestis (see Yersinia pestis) Bacillus popilliae, gene transfer from B. thuringiensis to 2277 Bacillus sphaericus against Anopheles albimanus 1569 Culex quinquefasciatus 1569 Culicidae 3039 |
| australense, Austrosimulium Australia (see also individual States and Territories) biological control in 2310, 2312 insecticide use in 451 Latrodectus mactans in, on man 1459 man in, arthropod pests of 1506 Muscoidea in, in cattle dung 1681 Scarabaeidae in, mites on 2893 Sepsidae in 3158 australicus, Culex australis, Aedes australis, Androctonus australis, Hydrotaea Australophyra rostrata | 1-Aziridinecarboxamide, N,N'-1,6-hexanediylbis- in Lucilia cuprina effects on development of 606 effects on ovarian development of 1404 sterilant for, Lucilia cuprina 608 azteca, Hyalella Babesia epidemiology of, review 2210 in Boophilus spp., transmission of 2682, 2683 B. microplus, transmission of 2677 cattle in Australia 2210 | Aedes aegypti, pathogenicity of 2769 Anopheles stephensi, pathogenicity of 2769 Culex quinquefasciatus, pathogenicity of 2769 Culicinae, in Tamil Nadu 2769 Bacillus pestis (see Yersinia pestis) Bacillus popilliae, gene transfer from B. thuringiensis to 2277 Bacillus sphaericus against Anopheles albimanus 1569 Culex quinquefasciatus 1569 Culicidae 3039 in Aedes stimulans, effects of temperature on susceptibility to 1830 |
| australense, Austrosimulium Australia (see also individual States and Territories) biological control in 2310, 2312 insecticide use in 451 Latrodectus mactans in, on man 1459 man in, arthropod pests of 1506 Muscoidea in, in cattle dung 1681 Scarabaeidae in, mites on 2893 Sepsidae in 3158 australicus, Culex australis, Aedes australis, Androctonus australis, Hydrotaea Australophyra rostrata in Australia 1138 | 1-Aziridinecarboxamide, N,N'-1,6-hexamedylbis- in Lucilia cuprina effects on development of 606 effects on ovarian development of 1404 sterilant for, Lucilia cuprina 608 azteca, Hyalella Babesia epidemiology of, review 2210 in Boophilus spp., transmission of 2682, 2683 B. microplus, transmission of 2677 cattle in Australia 2210 in Brazil 2682 | Aedes aegypti, pathogenicity of 2769 Anopheles stephensi, pathogenicity of 2769 Culex quinquefasciatus, pathogenicity of 2769 Culicinae, in Tamil Nadu 2769 Bacillus pestis (see Yersinia pestis) Bacillus popilliae, gene transfer from B. thuringiensis to 2277 Bacillus sphaericus against Anopheles albimanus 1569 Culex quinquefasciatus 1569 Culex quinquefasciatus 1569 Culicidae 3039 in Aedes stimulans, effects of temperature on susceptibility to 1830 A. triseriatus, effects of temperature on |
| australense, Austrosimulium Australia (see also individual States and Territories) biological control in 2310, 2312 insecticide use in 451 Latrodectus mactans in, on man 1459 man in, arthropod pests of 1506 Muscoidea in, in cattle dung 1681 Scarabaeidae in, mites on 2893 Sepsidae in 3158 australicus, Culex australis, Aedes australis, Androctonus australis, Hydrotaea Australia 1138 on sheep, in Australia 1138 | 1-Aziridinecarboxamide, N,N'-1,6-hexamediylbis- in Lucilia cuprina effects on development of 606 effects on ovarian development of 1404 sterilant for, Lucilia cuprina 608 azteca, Hyalella Babesia epidemiology of, review 2210 in Boophilus spp., transmission of 2682, 2683 B. microplus, transmission of 2677 cattle in Australia 2210 in Brazil 2682 in Colombia 1761 | Aedes aegypti, pathogenicity of 2769 Anopheles stephensi, pathogenicity of 2769 Culex quinquefasciatus, pathogenicity of 2769 Culicinae, in Tamil Nadu 2769 Bacillus pestis (see Yersinia pestis) Bacillus popilliae, gene transfer from B. thuringiensis to 2277 Bacillus sphaericus against Anopheles albimanus 1569 Culex quinquefasciatus 1569 Culicidae 3039 in Aedes stimulans, effects of temperature on susceptibility to 1830 A. triseriatus, effects of temperature on susceptibility to 1830 |
| australense, Austrosimulium Australia (see also individual States and Territories) biological control in 2310, 2312 insecticide use in 451 Latrodectus mactans in, on man 1459 man in, arthropod pests of 1506 Muscoidea in, in cattle dung 1681 Scarabaeidae in, mites on 2893 Sepsidae in 3158 australicus, Culex australis, Aedes australis, Androctonus australis, Hydrotaea Australophyra rostrata in Australia 1138 on sheep, in Australia 1138 Austria | 1-Aziridinecarboxamide, N,N'-1,6-hexanediylbis- in Lucilia cuprina effects on development of 606 effects on ovarian development of 1404 sterilant for, Lucilia cuprina 608 azteca, Hyalella Babesia epidemiology of, review 2210 in Boophilus spp., transmission of 2682, 2683 B. microplus, transmission of 2677 cattle in Australia 2210 in Brazil 2682 in Colombia 1761 in Zimbabwe 654 | Aedes aegypti, pathogenicity of 2769 Anopheles stephensi, pathogenicity of 2769 Culex quinquefasciatus, pathogenicity of 2769 Culicinae, in Tamil Nadu 2769 Bacillus pestis (see Yersinia pestis) Bacillus popilliae, gene transfer from B. thuringiensis to 2277 Bacillus sphaericus against Anopheles albimanus 1569 Culex quinquefasciatus 1569 Culex quinquefasciatus 1569 Culicidae 3039 in Aedes stimulans, effects of temperature on susceptibility to 1830 A. triseriatus, effects of temperature on |
| australense, Austrosimulium Australia (see also individual States and Territories) biological control in 2310, 2312 insecticide use in 451 Latrodectus mactans in, on man 1459 man in, arthropod pests of 1506 Muscoidea in, in cattle dung 1681 Scarabaeidae in, mites on 2893 Sepsidae in 3158 australicus, Culex australis, Aedes australis, Androctonus australis, Hydrotaea Australophyra rostrata in Australia 1138 on sheep, in Australia 1138 Austria Demodex spp. in, on dog 1448 Lucilia sericata in, on Asio 1134 | 1-Aziridinecarboxamide, N,N'-1,6-hexamediylbis- in Lucilia cuprina effects on development of 606 effects on ovarian development of 1404 sterilant for, Lucilia cuprina 608 azteca, Hyalella Babesia epidemiology of, review 2210 in Boophilus spp., transmission of 2682, 2683 B. microplus, transmission of 2677 cattle in Australia 2210 in Brazil 2682 in Colombia 1761 in Zimbabwe 654 symptoms of 2683 dog, in Netherlands 2912 | Aedes aegypti, pathogenicity of 2769 Anopheles stephensi, pathogenicity of 2769 Culex quinquefasciatus, pathogenicity of 2769 Culicinae, in Tamil Nadu 2769 Bacillus pestis (see Yersinia pestis) Bacillus popilliae, gene transfer from B. thuringiensis to 2277 Bacillus sphaericus against Anopheles albimanus 1569 Culex quinquefasciatus 1569 Culicidae 3039 in Aedes stimulans, effects of temperature on susceptibility to 1830 A. triseriatus, effects of temperature on susceptibility to 1830 Culex quinquefasciatus, pathogenicity of 1087, 1088 Culicidae, detecting of 136 |
| australense, Austrosimulium Australia (see also individual States and Territories) biological control in 2310, 2312 insecticide use in 451 Latrodectus mactans in, on man 1459 man in, arthropod pests of 1506 Muscoidea in, in cattle dung 1681 Scarabaeidae in, mites on 2893 Sepsidae in 3158 australis, Culex australis, Aedes australis, Androctonus australis, Hydrotaea Australophyra rostrata in Australia 1138 on sheep, in Australia 1138 Austria Demodex spp. in, on dog 1448 Lucilia sericata in, on Asio 1134 Sarcoptes spp. in, on dog 1448 | 1-Aziridinecarboxamide, N,N'-1,6-hexanediylbis- in Lucilia cuprina effects on development of 606 effects on ovarian development of 1404 sterilant for, Lucilia cuprina 608 azteca, Hyalella Babesia epidemiology of, review 2210 in Boophilus spp., transmission of 2682, 2683 B. microplus, transmission of 2677 cattle in Australia 2210 in Brazil 2682 in Colombia 1761 in Zimbabwe 654 symptoms of 2683 dog, in Netherlands 2912 Ixodes ricinus, transmission of 412, | Aedes aegypti, pathogenicity of 2769 Anopheles stephensi, pathogenicity of 2769 Culex quinquefasciatus, pathogenicity of 2769 Culicinae, in Tamil Nadu 2769 Bacillus pestis (see Yersinia pestis) Bacillus popilliae, gene transfer from B. thuringiensis to 2277 Bacillus sphaericus against Anopheles albimanus 1569 Culex quinquefasciatus 1569 Culicidae 3039 in Aedes stimulans, effects of temperature on susceptibility to 1830 A. triseriatus, effects of temperature on susceptibility to 1830 Culex quinquefasciatus, pathogenicity of 1087, 1088 Culicidae, detecting of 136 mammals, not pathogenic 2253 |
| australense, Austrosimulium Australia (see also individual States and Territories) biological control in 2310, 2312 insecticide use in 451 Latrodectus mactans in, on man 1459 man in, arthropod pests of 1506 Muscoidea in, in cattle dung 1681 Scarabaeidae in, mites on 2893 Sepsidae in 3158 australicus, Culex australis, Aedes australis, Androctonus australis, Androctonus australis, Hydrotaea Australophyra rostrata in Australia 1138 on sheep, in Australia 1138 Austria Demodex spp. in, on dog 1448 Lucilia sericata in, on Asio 1134 Sarcoptes spp. in, on dog 1448 austriaca, Vespula | 1-Aziridinecarboxamide, N,N'-1,6-hexanediylbis- in Lucilia cuprina effects on development of 606 effects on ovarian development of 1404 sterilant for, Lucilia cuprina 608 azteca, Hyalella Babesia epidemiology of, review 2210 in Boophilus spp., transmission of 2682, 2683 B. microplus, transmission of 2677 cattle in Australia 2210 in Brazil 2682 in Colombia 1761 in Zimbabwe 654 symptoms of 2683 dog, in Netherlands 2912 Ixodes ricinus, transmission of 412, 2950 | Aedes aegypti, pathogenicity of 2769 Anopheles stephensi, pathogenicity of 2769 Culex quinquefasciatus, pathogenicity of 2769 Culicinae, in Tamil Nadu 2769 Bacillus pestis (see Yersinia pestis) Bacillus popilliae, gene transfer from B. thuringiensis to 2277 Bacillus sphaericus against Anopheles albimanus 1569 Culex quinquefasciatus 1569 Culicidae 3039 in Aedes stimulans, effects of temperature on susceptibility to 1830 A. triseriatus, effects of temperature on susceptibility to 1830 Culex quinquefasciatus, pathogenicity of 1087, 1088 Culicidae, detecting of 136 mammals, not pathogenic 2253 soil, detecting of 136 |
| australense, Austrosimulium Australia (see also individual States and Territories) biological control in 2310, 2312 insecticide use in 451 Latrodectus mactans in, on man 1459 man in, arthropod pests of 1506 Muscoidea in, in cattle dung 1681 Scarabaeidae in, mites on 2893 Sepsidae in 3158 australicus, Culex australis, Aedes australis, Androctonus australis, Androctonus australis, Hydrotaea Australophyra rostrata in Australia 1138 on sheep, in Australia 1138 Austria Demodex spp. in, on dog 1448 Lucilia sericata in, on Asio 1134 Sarcoptes spp. in, on dog 1448 austriaca, Vespula austropalpalis, Culicoides | 1-Aziridinecarboxamide, N,N'-1,6-hexamediylbis- in Lucilia cuprina effects on development of 606 effects on ovarian development of 1404 sterilant for, Lucilia cuprina 608 azteca, Hyalella Babesia epidemiology of, review 2210 in Boophilus spp., transmission of 2682, 2683 B. microplus, transmission of 2677 cattle in Australia 2210 in Brazil 2682 in Colombia 1761 in Zimbabwe 654 symptoms of 2683 dog, in Netherlands 2912 Ixodes ricinus, transmission of 412, 2950 Rhipicephalus sanguineus, transmission | Aedes aegypti, pathogenicity of 2769 Anopheles stephensi, pathogenicity of 2769 Culex quinquefasciatus, pathogenicity of 2769 Culicinae, in Tamil Nadu 2769 Bacillus pestis (see Yersinia pestis) Bacillus popilliae, gene transfer from B. thuringiensis to 2277 Bacillus sphaericus against Anopheles albimanus 1569 Culex quinquefasciatus 1569 Culex quinquefasciatus 1569 Culicidae 3039 in Aedes stimulans, effects of temperature on susceptibility to 1830 A. triscriatus, effects of temperature on susceptibility to 1830 Culex quinquefasciatus, pathogenicity of 1087, 1088 Culicidae, detecting of 136 mammals, not pathogenic 2253 soil, detecting of 136 toxin of 1088 |
| australense, Austrosimulium Australia (see also individual States and Territories) biological control in 2310, 2312 insecticide use in 451 Latrodectus mactans in, on man 1459 man in, arthropod pests of 1506 Muscoidea in, in cattle dung 1681 Scarabaeidae in, mites on 2893 Sepsidae in 3158 australicus, Culex australis, Aedes australis, Androctonus australis, Androctonus australis, Hydrotaea Australophyra rostrata in Australia 1138 on sheep, in Australia 1138 Austria Demodex spp. in, on dog 1448 Lucilia sericata in, on Asio 1134 Sarcoptes spp. in, on dog 1448 austriaca, Vespula | 1-Aziridinecarboxamide, N,N'-1,6-hexanediylbis- in Lucilia cuprina effects on development of 606 effects on ovarian development of 1404 sterilant for, Lucilia cuprina 608 azteca, Hyalella Babesia epidemiology of, review 2210 in Boophilus spp., transmission of 2682, 2683 B. microplus, transmission of 2677 cattle in Australia 2210 in Brazil 2682 in Colombia 1761 in Zimbabwe 654 symptoms of 2683 dog, in Netherlands 2912 Ixodes ricinus, transmission of 412, 2950 | Aedes aegypti, pathogenicity of 2769 Anopheles stephensi, pathogenicity of 2769 Culex quinquefasciatus, pathogenicity of 2769 Culicinae, in Tamil Nadu 2769 Bacillus pestis (see Yersinia pestis) Bacillus popilliae, gene transfer from B. thuringiensis to 2277 Bacillus sphaericus against Anopheles albimanus 1569 Culex quinquefasciatus 1569 Culicidae 3039 in Aedes stimulans, effects of temperature on susceptibility to 1830 A. triseriatus, effects of temperature on susceptibility to 1830 Culex quinquefasciatus, pathogenicity of 1087, 1088 Culicidae, detecting of 136 mammals, not pathogenic 2253 soil, detecting of 136 |
| australense, Austrosimulium Australia (see also individual States and Territories) biological control in 2310, 2312 insecticide use in 451 Latrodectus mactans in, on man 1459 man in, arthropod pests of 1506 Muscoidea in, in cattle dung 1681 Scarabaeidae in, mites on 2893 Sepsidae in 3158 australicus, Culex australis, Aedes australis, Androctonus australis, Androctonus australis, Hydrotaea Australophyra rostrata in Australia 1138 on sheep, in Australia 1138 Austria Demodex spp. in, on dog 1448 Lucilia sericata in, on Asio 1134 Sarcoptes spp. in, on dog 1448 austriaca, Vespula austropalpalis, Culicoides Austrosimulium Culicinomyces spp. in, infectivity of 511 in Queensland 845 | 1-Aziridinecarboxamide, N,N'-1,6-hexamedylbis- in Lucilia cuprina effects on development of 606 effects on ovarian development of 1404 sterilant for, Lucilia cuprina 608 azteca, Hyalella Babesia epidemiology of, review 2210 in Boophilus spp., transmission of 2682, 2683 B. microplus, transmission of 2677 cattle in Australia 2210 in Brazil 2682 in Colombia 1761 in Zimbabwe 654 symptoms of 2683 dog, in Netherlands 2912 Ixodes ricinus, transmission of 412, 2950 Rhipicephalus sanguineus, transmission of 2950 vectors of 2210 Babesia bigemina | Aedes aegypti, pathogenicity of 2769 Anopheles stephensi, pathogenicity of 2769 Culex quinquefasciatus, pathogenicity of 2769 Culicinae, in Tamil Nadu 2769 Bacillus pestis (see Yersinia pestis) Bacillus popilliae, gene transfer from B. thuringiensis to 2277 Bacillus sphaericus against Anopheles albimanus 1569 Culex quinquefasciatus 1569 Culex quinquefasciatus 1569 Culicidae 3039 in Aedes stimulans, effects of temperature on susceptibility to 1830 A. triseriatus, effects of temperature on susceptibility to 1830 Culex quinquefasciatus, pathogenicity of 1087, 1088 Culicidae, detecting of 136 mammals, not pathogenic 2253 soil, detecting of 136 toxin of 1088 released by digestion in host gut 1087 Bacillus thuringiensis against |
| australense, Austrosimulium Australia (see also individual States and Territories) biological control in 2310, 2312 insecticide use in 451 Latrodectus mactans in, on man 1459 man in, arthropod pests of 1506 Muscoidea in, in cattle dung 1681 Scarabaeidae in, mites on 2893 Sepsidae in 3158 australicus, Culex australis, Aedes australis, Androctonus australis, Hydrotaea Australia 1138 on sheep, in Australia 1138 Austria Demodex spp. in, on dog 1448 Lucilia sericata in, on Asio 1134 Sarcoptes spp. in, on dog 1448 austriaca, Vespula austropalpalis, Culicoides Austrosimulium Culicinomyces spp. in, infectivity of 511 in Queensland 845 labro-cibarial sensilla and armature in | 1-Aziridinecarboxamide, N,N'-1,6-hexamediylbis- in Lucilia cuprina effects on development of 606 effects on ovarian development of 1404 sterilant for, Lucilia cuprina 608 azteca, Hyalella Babesia epidemiology of, review 2210 in Boophilus spp., transmission of 2682, 2683 B. microplus, transmission of 2677 cattle in Australia 2210 in Brazil 2682 in Colombia 1761 in Zimbabwe 654 symptoms of 2683 dog, in Netherlands 2912 Ixodes ricinus, transmission of 412, 2950 Rhipicephalus sanguineus, transmission of 2950 vectors of 2210 Babesia bigemina in | Aedes aegypti, pathogenicity of 2769 Anopheles stephensi, pathogenicity of 2769 Culex quinquefasciatus, pathogenicity of 2769 Culicinae, in Tamil Nadu 2769 Bacillus pestis (see Yersinia pestis) Bacillus popilliae, gene transfer from B. thuringiensis to 2277 Bacillus sphaericus against Anopheles albimanus 1569 Culex quinquefasciatus 1569 Culicidae 3039 in Aedes stimulans, effects of temperature on susceptibility to 1830 A. triseriatus, effects of temperature on susceptibility to 1830 Culex quinquefasciatus, pathogenicity of 1087, 1088 Culicidae, detecting of 136 mammals, not pathogenic 2253 soil, detecting of 136 toxin of 1088 released by digestion in host gut 1087 Bacillus thuringiensis against Aedes aegypti 536 |
| australense, Austrosimulium Australia (see also individual States and Territories) biological control in 2310, 2312 insecticide use in 451 Latrodectus mactans in, on man 1459 man in, arthropod pests of 1506 Muscoidea in, in cattle dung 1681 Scarabaeidae in, mites on 2893 Sepsidae in 3158 australis, Culex australis, Aedes australis, Androctonus australis, Hydrotaea Australophyra rostrata in Australia 1138 on sheep, in Australia 1138 Austria Demodex spp. in, on dog 1448 Lucilia sericata in, on Asio 1134 Sarcoptes spp. in, on dog 1448 austriaca, Vespula austropalpalis, Culicoides Austrosimulium Culicinomyces spp. in, infectivity of 511 in Queensland 845 labro-cibarial sensilla and armature in 187 | 1-Aziridinecarboxamide, N,N'-1,6-hexamediylbis- in Lucilia cuprina effects on development of 606 effects on ovarian development of 1404 sterilant for, Lucilia cuprina 608 azteca, Hyalella Babesia epidemiology of, review 2210 in Boophilus spp., transmission of 2682, 2683 B. microplus, transmission of 2677 cattle in Australia 2210 in Brazil 2682 in Colombia 1761 in Zimbabwe 654 symptoms of 2683 dog, in Netherlands 2912 Ixodes ricinus, transmission of 412, 2950 Rhipicephalus sanguineus, transmission of 2950 vectors of 2210 Babesia bigemina in Boophilus microplus, transmission of | Aedes aegypti, pathogenicity of 2769 Anopheles stephensi, pathogenicity of 2769 Culex quinquefasciatus, pathogenicity of 2769 Culicinae, in Tamil Nadu 2769 Bacillus pestis (see Yersinia pestis) Bacillus popilliae, gene transfer from B. thuringiensis to 2277 Bacillus sphaericus against Anopheles albimanus 1569 Culex quinquefasciatus 1569 Culicidae 3039 in Aedes stimulans, effects of temperature on susceptibility to 1830 A. triseriatus, effects of temperature on susceptibility to 1830 Culex quinquefasciatus, pathogenicity of 1087, 1088 Culicidae, detecting of 136 mammals, not pathogenic 2253 soil, detecting of 136 toxin of 1088 released by digestion in host gut 1087 Bacillus thuringiensis against Aedes aegypti 536 blood-sucking flies 2354 |
| australense, Austrosimulium Australia (see also individual States and Territories) biological control in 2310, 2312 insecticide use in 451 Latrodectus mactans in, on man 1459 man in, arthropod pests of 1506 Muscoidea in, in cattle dung 1681 Scarabaeidae in, mites on 2893 Sepsidae in 3158 australicus, Culex australis, Aedes australis, Androctonus australis, Hydrotaea Australia 1138 on sheep, in Australia 1138 Austria Demodex spp. in, on dog 1448 Lucilia sericata in, on Asio 1134 Sarcoptes spp. in, on dog 1448 austriaca, Vespula austropalpalis, Culicoides Austrosimulium Culicinomyces spp. in, infectivity of 511 in Queensland 845 labro-cibarial sensilla and armature in | 1-Aziridinecarboxamide, N,N'-1,6-hexamediylbis- in Lucilia cuprina effects on development of 606 effects on ovarian development of 1404 sterilant for, Lucilia cuprina 608 azteca, Hyalella Babesia epidemiology of, review 2210 in Boophilus spp., transmission of 2682, 2683 B. microplus, transmission of 2677 cattle in Australia 2210 in Brazil 2682 in Colombia 1761 in Zimbabwe 654 symptoms of 2683 dog, in Netherlands 2912 Ixodes ricinus, transmission of 412, 2950 Rhipicephalus sanguineus, transmission of 2950 vectors of 2210 Babesia bigemina in | Aedes aegypti, pathogenicity of 2769 Anopheles stephensi, pathogenicity of 2769 Culex quinquefasciatus, pathogenicity of 2769 Culicinae, in Tamil Nadu 2769 Bacillus pestis (see Yersinia pestis) Bacillus popilliae, gene transfer from B. thuringiensis to 2277 Bacillus sphaericus against Anopheles albimanus 1569 Culex quinquefasciatus 1569 Culicidae 3039 in Aedes stimulans, effects of temperature on susceptibility to 1830 A. triseriatus, effects of temperature on susceptibility to 1830 Culex quinquefasciatus, pathogenicity of 1087, 1088 Culicidae, detecting of 136 mammals, not pathogenic 2253 soil, detecting of 136 toxin of 1088 released by digestion in host gut 1087 Bacillus thuringiensis against Aedes aegypti 536 |

Bacillus thuringiensis contd. Haematobia irritans, in Texas 1407 Simulium vittatum, pathogenicity of 190 insect control using 2355 use of, in China 985 Bacillus thuringiensis var. israelensis against Aedes caspius 551, 1590
A. cataphylla 2750
A. communis 2750
A. detritus 551
A. dorsalis 1604
A. sierrensis 1604
A. vexans 2750 A. vexans 2/50 Culex pipiens 551, 1590, 1604 C. tarsalis 1604 Culicidae 159, 1589, 1591, 3036, 3066 Culiseta incidens 1604 C. inornata 1604 Simulium spp. 1363, 1665, 2459, 2818 S. damnosum 192, 2455 endotoxin of sedimentation in water of 2459 tropical stability of 2459 formulations of 551 persistence of 1591 standardisation of 1475, 1590 in coastal regions, non-target effects of fresh water, non-target effects of mammals, safety tests on 3242 tropical rivers, effects on invertebrates of 192 of 192
tropical water courses, effects on invertebrates of 3241
non-target effects of 1588
reference formulation of 2029
sunlight as affecting 1604
water quality as affecting 1604
WHO data sheet on 2030 Bacillus thuringiensis var, kurstaki against Aedes aegypti 536 Blattella germanica 3004 Bacillus thuringiensis var. kyushuensis against, Culex tritaeniorhynchus characterisation of 1296 1296 in Bombyx mori, not pathogenic 1296 Musca domestica, not producing exotoxin 1296 Bacillus thuringiensis var. thuringiensis against Musca domestica 2517 Xenopsylla cheopis 2216 with DDT, against, Xenopsylla cheopis 2216 Bacillus thuringiensis var. toumanoffi, antigens of 1296 bacoti, Ornithonyssus Bacteria genetic improvement of 2277 Aedes aegypti, in gut 3098 cattle dung, effects of insects on 2989 Culicidae, in Thailand 1606 Dugesiella anax 2249 house dust, identifying of 933 insects, diagnostic manual 2031 insects in grocery shops, in East Germany 1832 man, arthropod transmission of Triatoma infestans excreta 2704 mosquito control using 468

Bactospeine (see Bacillus thuringiensis var. thuringiensis) Baetis, insect growth regulators in, toxicity of 2744 baghdadis, Sergentomyia Bahamas Aedes aegypti in 2095 A. bahamensis in 2095 dengue in 167 Siolimyia amazonica in 603 bahamensis, Aedes bahiensis, Tityus bahiensis, Triatoma (see T. lenti)

bailyi, Sergentomyia bajensis, Culicoides bajensis, Dasyhelea

Bakeries, Monomorium pharaonis in, in central Europe 235 Bakery products, pest control in 480 Baku virus, in, Ornithodoros coniceps, in Uzbekistan 1431 balabacensis, Anopheles Bamboo, Topomyia rausai in internodes of, in Philippines 3096 Bamboo stumps Aedes albopictus in, in Japan 819
A. riversi in, in Japan 819
Banana, Aedes poicilia in axils of, in Banana, Aedes poicilia in axils of, in Philippines 1312
Banana (stored fruit), Heteropoda venatoria in, imported into USA 1223
bancrofti, Austrosimulium bancrofti, Haemaphysalis bancroftianus, Aedes bancroftii, Anopheles Bandicoot, Raffray's (see Peroryctes raffravanus) Bandicoot, short-nosed (see Isoodon macrourus)

Bandicota bengalensis

Xenopsylla astia on, in Burma 2714

X. cheopis on, in Burma 2714 Bangladesh Anopheles philippinensis in 2426 Aphodiidae in, in dung 2192 Musca domestica in 3150 M. sorbens in 3150 Sarcophaga misera in, natural enemies of 1963 Scarabaeidae in, in dung 2192 Barbados, dengue in 167 Barbastella barbastellus, Acari on, in Poland 935 barbastellinus, Macronyssus barbastellinus, Macronyssus barberi, Triatoma barbipes, Glyptotendipes barbiosai, Culicoides Barium, ion (Ba²⁺), in Phormia regina, effects on sugar receptors of 2847 Barizon (see Phenol, 2-(1-methylpropyl)-, methylcarbamate) Barley (Hordeum spp.)
Barley (stored grain), Pyemotes tritici in, in
Tunisia 2635
Barn allergy 1207
barraudi, Culex Barricade (see Cypermethrin) Basements Culex molestus in, in Uzbekistan 2110 C. pipiens in, in Uzbekistan 2110 Basilia truncata, in Japan 2531 Bassariscus astutus Neotrichodectes thoracicus on, in Texas Siphonaptera on, in USA 1028 Rat Acanthophthirius spp. on, in Poland 1784 Acari on, in Poland 935, 2642 Basilia truncata on, in Japan 2531 Macronyssus spp. on, in Japan 2637 Myobiidae on in Switzerland 673, 1450 in Thailand 1773 Nycteribiidae on in Poland 2642
in Saudi Arabia 394

Nycteridopsylla vancouverensis on, in
Colorado 1028

Penicillidia monoceros on, in Japan 2531 Pteracarus spp. on, in Japan 1791 Sarcoptiformes on, in Poland 2641 Siphonaptera on, in Poland 2642 Spinturnicidae on, in Western Australia Spinturnix spp. on, in Japan 943 Trombidiformes on, in Poland 2641 Trypanosoma cruzi in, in Brazil 1279 Bat guano, arthropod communities in 1820
Bat, New Zealand short-tailed (see

Mystacina tuberculata)
Baygon (see Propoxur)
Baygon MEB (see Benzenemethanol, 3,4dichloro-a-(trichloromethyl)-, acetate) Baytex (see Fenthion)

in bat guano, in New Hampshire 1820

in house dust, in Brazil 1453

Beaches, Tabanidae in, in USA 2862 beameri. Chrysons Bean, sova (see Sovabean) Beauveria, bibliography 2939 Beauveria bassiana in. Aedes sierrensis, in California 1864 taxonomy of, misidentified as Beauveria tenella, in California 1864 use of, in China 985 Beauveria tenella in Aedes aegypti, not infective 2772 Anopheles stephensi, pathogenicity of 2772 Culex quinquefasciatus in Tamil Nadu 2772 pathogenicity of 2772 taxonomy of Beauveria bassiana misidentified as, in California 1864 Tolypocladium spp. misidentified as, in California 1864 Bedding dust, Dermatophagoides pteronyssinus in 1208

Beech (see Fagus)

Beeswax, insecticides in, absorption of 163

beklemishevi, Anopheles

Belbidae, in house dust, in Peru 273 Belgium Blattaria in 1168 Sarcoptes scabiei in, on man 677 Belize, Cochliomyia hominivorax in, on man 2851 beljaevi, Ceratophyllus belkini, Culicoides belkini, Uranotaenia Belostoma on man, bites by 1567 preying on Culicidae 1 snails 1567 1567 Bembix multipicta defensive activity in 2496 foraging in 2496 in Costa Rica 2496
nest closure in 2496
preyed on by, Solenopsis spp., in Costa
Rica 2496 preying on, Tabanidae, in Costa Rica 2496 Bendiocarb (2,2-dimethyl-1,3-benzodioxol-4-yl methylcarbamate) against Anopheles spp., in dwellings 1564
A. stephensi, in dwellings 1289
Culicidae 1582 Mansonia spp., in dwellings 1564 Monomorium pharaonis, in dwellings 3181 resistance to, in, Blattella germanica, and cross-resistance 1513

bengalensis, Liponyssoides

Benin, onchocerciasis control in 1109, 1110

Benniseed (see Sesame) Benomyl (methyl [1-[(butylamino)carbonyl]-1H-benzimidazol-2-yl]carbamate) against, Catenaria anguillulae, in Romanomermis 105 in Romanomermis culicivorax, toxicity of 105 Benzaldehyde, methoxyin Musca domestica, toxicity of 2668 in Pimpinella anisum 2668
synergist for, insecticides 2668
Benzamide, 2-chloro-N-[[[3,5-dichloro-4-(4-nitrophenoxy)phenyl]amino]carbonyl]against Culex quinquefasciatus 2744 Culiseta incidens 2744

Benzamide, N-[[(4-chlorophenyl)amino]carbonyl]-2,6-difluoro- (see Diflubenzuron)
Benzamide, 2-chloro-N-[[[4-(trifluoromethoxy)phenyl]amino]carbonvl]against Aedes nigromaculis 2744 Chaoborus astictopus in farm ponds 2481 in ponds 2482 Culex quinquefasciatus 1918, 2744 C. tarsalis 2744 Culiseta incidens 2744 Psorophora columbiae 2744

Subject Index Benzamide, 2-chloro-N-[[[4-(trifluoromethoxy)phenyl]amino]carbony-1]- contd. formulations of, sand granules 2481 in Gambusia affinis, residues of 2481 in non-target insects, toxicity of 2744 in ponds, non-target effects of 2482 sterilant for, Musca domestica Benzamide, 2,6-dichloro-N-[[(3,4dichlorophenyl)amino]carbonyl]-, in Musca domestica, inhibition of chitin synthesis by 383
Benzamide, N,N-diethyl-, with dimethyl 1,2benzenedicarboxylate, repellent for, biting flies, on man 2671 Benzamide, N,N-diethyl-3-methyl- (see Deet) Benzamide, 2,6-difluoro-N-[[[4-(trifluoromethyl)phenyl]amino]carbonyl]in Musca domestica, metabolism of sterilant for, Musca domestica 1940 Benzenamine, 2,4-dimethyl-N-(3-methyl-2(3H)-thiazolylidene)-, against, Argas walkerae, on fowl 2904 Benzene, 1-bromo-3-isothiocyanato-, against, Aedes aegypti 3061 Benzene, 1-bromo-4-isothiocyanato-, against, Aedes aegypti 3061 Benzene, 1-chloro-2,4-dinitro-, in Musca domestica, activity of glutathione S-transferase towards 1392 Benzene, 1-chloro-3-isothiocyanato-, against, Aedes aegypti 3061 Benzene, 1-chloro-4-isothiocyanato-, against, Aedes aegypti 3061 Benzene, 1,1'-(2-chloro-2methylpropylidene)bis[4-ethoxy-, photodegradation of 1473 photodegradation of pnototegradation of 1473
Benzene, 1,1'-(dichloroethenylidene)bis[4-chloro- (see p,p'-DDE)
Benzene, 2,4-dichloro-1-(4-nitrophenoxy)-(see Nitrofen) Senzene, 1,2-dimethoxy-4-(2-propenyl)- (see Methyl eugenol)

Benzene, 1,1'-(2,2-dimethylcyclopropylidene-)bis[4-ethoxyin Lucilia cuprina, neurophysiological effects of 1469 insecticidal activity of analogues of 1469 Benzene, 1,1'-(2,2-dimethylpropylidene)bis[4ethoxyethoxyagainst, Aedes aegypti 1562
synergists for, sesamex as 1562
Benzene, ethenylhomopolymer, Alphitobius diaperinus in,
damage caused by 2538
polymer with 1,3-butadiene and 2propenenitrile, slow-release insecticide formulations in 2336 Benzene, hexachloro-, in meat, residues of 2942 Benzene, isothiocyanato-, against, Aedes aegypti 3061

Benzene, 1-isothiocyanato-2-methoxy-, against, Aedes aegypti 3061

Benzene, 1-isothiocyanato-4-methoxy-, against, Aedes aegypti 3061 Benzene, 1-isothiocyanato-2-methyl-, against,
Aedes aegypti 3061 Benzene, 1-isothiocyanato-3-methyl-, against, Aedes aegypti 3061 Benzene, 1-isothiocyanato-4-methyl-, against, Acdes aegypti 3061
Benzene, 1-(8-methoxy-4,8-dimethylnonyl)-4against Aedes aegypti 508 A. albopictus 508

A. nigromaculis 2744

Armigeres durhami 508 Culex pseudovishnui 50

C. tritaeniorhynchus 5 Culiseta incidens 2744

Psorophora columbiae 2744

against, Musca domestica 2668 in Pimpinella anisum 2668 synergist for, insecticides 2668

in non-target insects, toxicity of Benzene, 1-methoxy-4-(1-propenyl)-

quinquefasciatus 508, 2744 tarsalis 2744

508

508

Benzene, 1-methoxy-4-(2-propenyl)in Musca domestica, toxicity of 2668 in Pimpinella anisum 2668 Benzene, 1,1'-(2-nitropropylidene)bis[4ethoxy-, in *Musca domestica*, effects on nervous system of 2843

Benzene, pentachloronitro-, against, Catenaria anguillulae, in Romanomermis Benzene, 1,1'-(2,2,2-trichloroethylidene)bis[-4-chloro- (see DDT) Sesamex) Benzene, 2,4,6-trichloro-1-(4-nitrophenoxy)in Culicidae, mode of action of in weeds, mode of action of 692 Benzeneacetic acid, Kadethrin photoproduct 953 Benzeneacetic acid, 4-chloro-α-(1methylethyl)-, cyano(3-phenoxyphenyl)methyl ester (see Fenvalerate) 1945 Benzeneacetic acid, a-[(dimethoxyphosphinothioyl)thio]-, ethyl ester (see Phenthoate) Benzenebutanoic acid, α,2-diamino-3-hydroxy-γ-oxo-, in Lucilia cuprina, relation of eye colour mutants and 2493 Benzenebutanoic acid, α,2-diamino-γ-oxo-, dimethylin Lucilia cuprina, relation of eye colour mutants and 2493 1,2-Benzenedicarboxylic acid dimethyl ester in mouse, not mutagenic 2672 with N,N-diethylbenzamide, repellent for, biting flies, on man 2671 1,2-Benzenediol, 4-(2-aminoethyl)- (see Dopamine) 1,2-Benzenediol, 4-(2-amino-1-Benzoic acid hydroxyethyl)-, (R)- (see Levarterenol) 1,2-Benzenediol, 4-[1-hydroxy-2against (methylamino)ethyl]-, (R)- (see Epinephrine) 1,4-Benzenediol in Musca domestica, toxicity of 2668 in Pimpinella anisum 2668
Benzenemethanamine, N-(2-chloroethyl)-N-(1-methyl-2-phenoxyethyl)- (see Phenoxybenzamine) against Benzenemethanol, Kadethrin photoproduct 953 Benzenemethanol, α -(aminomethyl)-4hydroxy- (see Octopamine) Benzenemethanol, 4-chloro-α-(4chlorophenyl)- α -methyl- (see in Entomophthora virulenta 1470 Chlorfenethol) butyl ester, with piperonyl butoxide, against, Otodectes cynotis, on ferret Benzenemethanol, 4-chloro-α-(4-chlorophenyl)-α-(trichloromethyl)- (see Benzoic acid, 4,4'-azoxybis-, in Entomophthora virulenta 1470 Dicofol) Benzenemethanol, 3,4-dichloro-a-Benzoic acid, 4-hydroxy-, methyl ester, diet component for, Musca domestica 3171
Benzoic acid, 4-[[4-(hydroxymethyl)phenyl]a-(trichloromethyl)acetate against, Pediculus capitis 1008 in mammals, toxicity of 29 insecticidal activity of 296 zoxy]against, Calliphora vicina 1470 Benzenemethanol, ar-methoxy-in Musca domestica, toxicity of 2668 in Pimpinella anisum 2668 in Entomophthora virulenta 1470 Benzoic acid, methoxyin Musca domestica, toxicity of 2668 Benzenesulfonamide, 4-amino-N-(1-phenyl-1H-pyrazol-5-yl)- (see Sulfaphenazole) in Pimpinella anisum 2668 Benzoic acid, 3,4,5-trihydroxy-, propyl ester, in Culex pipiens diet, as antioxidant for arachidonic acid 1906 1H-Benzimidazole-1-carboxylic acid, 2-(chlorodifluoromethyl)-4-nitro-6-(trifluoromethyl)-Benzophosphate (see Phosalone) ethyl ester 1H-2-Benzopyran-1-one, 3,4-dihydro-7,8acaricidal activity of 3245 insecticidal activity of 3245 dihydroxy-3-(2-hydroxypentyl)-6methoxyin Calliphora vicina, toxicity of 604 in Fusarium larvarum 604 1-methylethyl ester acaricidal activity of 3245 insecticidal activity of 324 1H-2-Benzopyran-1-one, 3,4-dihydro-8-hydroxy-3-(2-hydroxypentyl)-6,7-3245 1H-Benzimidazole-1-carboxylic acid, 4-nitro-2-(1,1,2,2-tetrafluoroethyl)-6dimethoxy-(trifluoromethyl)in Calliphora vicina, toxicity of 604 in Fusarium larvarum 604 1H-2-Benzopyran-1-one, 3,4-dihydro-8-hydroxy-3-methyl-1-methylethyl ester acaricidal activity of 3245
insecticidal activity of 3245
1H-Benzimidazole, 4-nitro-2-(1,1,2,2tetrafluoroethyl)-6-(trifluoromethyl)acaricidal activity of 3245
insecticidal activity of 3245 (R)in Calliphora vicina, not toxic 604 in Fusarium larvarum 604 2H-1-Benzopyran, 6,7-dimethoxy-2,2-4H-1,3,2-Benzodioxaphosphorin, 2-methoxy-, dimethyl-2-sulfide, resistance to, in, Musca domestica, in Honshu 2488 in Nasonia vitripennis, not inducing larval diapause 1743 in Ornithodoros parkeri, inhibiting oogenesis 2226 Bercaea, in Thailand 3143 1,3-Benzodioxole-5-propanamide, N-(phenylmethyl)-, synergist for, pyrethrins

1,3-Benzodioxole-5-propanamide, N-butyl-, synergist for, pyrethrins 2670 1,3-Benzodioxole-5-propanamide, N-hexyl-, synergist for, pyrethrins 2670 1,3-Benzodioxole, 5-[[2-(2butoxyethoxy)ethoxy]methyl]-6-propyl-(see Piperonyl butoxide) 1,3-Benzodioxole, 5-[1-[2-(2ethoxyethoxy]ethoxy]- (see 1,3-Benzodioxole, 5-ethoxy-6-[1-(4-methoxyphenyl)ethyl]-, sterilant for, Musca domestica 952 1,3-Benzodioxole, 5-ethoxy-6-[(4methoxyphenyl)methyl]-, sterilant for, Cochliomyia hominivorax 1945 1,3-Benzodioxole, 5-[(4methoxyphenyl)methyl]-6-(2-propenyl)-, sterilant for, Cochliomyia hominivorax 1,3-Benzodioxole, 5-[(4-methoxyphenyl)methyl]-6-propoxy-, sterilant for, *Musca domestica* 952 1,3-Benzodioxol-4-ol, 2,2-dimethyl-, methylcarbamate (see Bendiocarb) 3,7-Benzofurandiol, 2,3-dihydro-2,2in Musca domestica, effects of atrazine on conversion of carbofuran to 1947 7-(methylcarbamate), in Musca domestica, effects of atrazine on conversion of carbofuran to 1947

7-Benzofuranol, 2,3-dihydro-2,2-dimethylin Musca domestica, effects of atrazine on conversion of carbofuran to 1947 methylcarbamate (see Carbofuran) Kadethrin photoproduct 953 phenylmethyl ester Cheyletiella spp., on dog 1455
Sarcoptes scabiei, on man 3216
with HCH, 2-chloro-3-methyl-6-(1methylethyl)phenol, 5-methyl-2-(1methylethyl)phenol, prednisolone, and propanoic acid Demodex spp., on dog 1448 Sarcoptes spp., on dog 1448 Sarcoptes spp., on dog 1448
with lindane, against, Demodex canis,
on dog 2008
Benzoic acid, 4-amino-

```
Berenil (see Diminazene aceturate)
bergerardi, Sergentomyia
bergrothi, Culiseta
berlandi, Aedes
 berlesei, Caloglyphus
 Bermuda
      Blattella germanica in, in dwellings 1698
      Musca domestica in, in dwellings 1698
     Periplaneta americana in, in dwellings
Betula japonica, Culicidae in holes in, in
Hokkaido 2740
 Betula pendula, repellent activity of extracts
        of 246
Betula platyphylla japonica (see B. japonica)
Bezzia, in Cayman Islands 1658
bezziana, Chrysomya
bezzii, Musca
Bhanja virus
     antigens of 247
          Hyalomma asiaticum, detecting of
          H. impressum, in Somalia 247
      Ixodoidea, in Italy 2967 vectors of 247
vectors of 247
BHC (see HCH)
y-BHC (see Lindane)
Bibliographies
Aedes vexans 1625
                                      1625
      Hemiptera biting man 1011, 1012
Hemiptera biting man 1011, 1012
hypersensitivity to mosquito bites 820
Indian zoology 453, 454, 455, 1240
insecticides of vegetable origin 2939, 2940, 2941
Italian insect fauna 987
bicarinatum, Tetramorium
bicinctus, Cricotopus
bicolor, Cataglyphis
bicrenata, Dasyhelea
Bicyclo[2.2.1]heptane, 2,2,5,6-tetrachloro-
1,7-bis(chloromethyl)-7-(dichloromethyl)-
in Carassius auratus. toxicity of 693
     in Carassius auratus, toxicity of 693 in mouse, toxicity of 693
      in Musca domestica, toxicity of 693
      in toxaphene 693
in toxapnene 693
Bicyclo[2.2.1]heptan-2-ol, 1,7,7-trimethyl-, acetate, (-)-, Periplaneta americana electroantennogram responses to 1269
Bicyclo[2.2.1]hept-2-ene, 5-(bromomethyl)-1,2,3,4,7,7-hexachloro- (see Bromocyclen)
Bicyclo[3.1.1]hept-3-en-2-ol, 4,6,6-trimethyl-, acetate, (1\alpha,2\alpha,5\alpha)-, Periplaneta americana electroantennogram responses
        to 1269
 bidens, Haemolaelaps
 bidentatum, Simulium
bifasciatus, Onthophagus
biguttatus, Tabanus
Bilirubin, in cattle blood, effects of Ixodoidea on 2209
 bimaculata, Hybomitra
bimaculatus, Gryllus
bimaculatus, Hister (see Peranus
        bimaculatus)
 bimaculatus, Peranus (Hister)
 binodis, Onthophagus
 Binuncus jamesoni
      descriptions of 1773
in Thailand 1773

in Thailand 1773
Bio-Film, in diazinon formulations, effects on insecticidal activity of 3244
Bioallethrin (see Allethrin, (1R-trans)-)
S-Bioallethrin (see Allethrin, [1R-[1α(S*),3β]]-)
Bioethanomethrin ([5-(phenylmethyl)-3-furanyl]methyl (1R-trans)-3-(cyclopentylidenemethyl) 2.2

        (cyclopentylidenemethyl)-2,2-
(cyclopentylidenemethyl)-2,2-
dimethylcyclopropanecarboxylate)
in Musca domestica, effects on nervous
system of 2843
resistance to, in, Musca domestica 2843
Biological control
of arthropods (see also Sterile-insect
release and individual pathogens)
Aedes aegypti 1063, 2784
A. polynesiensis 2784
An polynesiensis 2784
          Anopheles freeborni, in rice-fields 101 blood-sucking flies 2354
           Chaoborus astictopus, in farm ponds
```

```
bitaeniorhynchus, Culex
Biological control contd
                                                                                      Bites and stings
    of arthropods contd.
        Culex pipiens, in catch basins
                                                                                          in cattle
        C. restuans, in catch basins 2382
Culicidae 468, 1861, 2756, 3068
                                                                                             by Simuliidae 1929
by Simulium 3123
        Haematobia irritans 1145, 2310, 2315 in cattle dung 210
                                                                                          in man
                                                                                             by Androctonus crassicauda 1234
            in dung 2501
                                                                                              by Apis mellifera 401, 1971, 2534
                                                                                             by Araneae 1221
by arthropods 1506
         Musca autumnalis, in cattle dung 210
         M. domestica 2868
        in fowl houses 2183
in poultry houses 3179
M. vetustissima 1145, 1154, 2310,
2315
                                                                                             by Astegopteryx styracicola
by Bryobia praetiosa 1259
by Buthidae 679
                                                                                             by Cheiracanthium 996
by Cheiracanthium lawrencei 3240
        Periplaneta americana 2058
pests of domestic animals 2296
Stomoxys nigra 626
vectors 972, 2674
biotype discrimination in 2273
                                                                                             by Cheiracanthium punctorium 2250
by Culicidae 546, 820
                                                                                             by Culicoides belkini 1097
by Hemiptera 1011, 1012, 1567
        environmental effects of 175
in Australia 2310, 2312
in Solomon Islands 2842
                                                                                             by Hemiscolopendra punctiventris
                                                                                                    1259
                                                                                              by Heteropoda venatoria
in Solomon Islands 2842
in South Pacific region 2375
models of 1255
pathogens for 2984
quarantine of agents for 2313
review 2292
of molluscs, book 2037
of vertebrates, rabbit 2365
Bioresmethrin ([5-(phenylmethyl)-3-
furanyl]methyl (1R-trans)-2,2-dimethyl-3-
(2-methyl-1-propenyl)cyclopropanecarbo-
xylate)
                                                                                             by Hymenoptera 712
by insects 1965
                                                                                             by Latrodectus mactans 289, 969, 1459
                                                                                             by Loxosceles 996
by Lycosa 688
                                                                                              by Monomorium pharaonis 460
by Ornithodoros coniceps 1431
by Parabuthus liosoma 1234
                                                                                              by Sclerodermus domesticus 969
                                                                                         by Scientias 996
by Vespidae 242
by Vespida 401
in mouse, by Astegopteryx styracicola
      xylate)
    against
         Aedes spp.
                              1225
         A. cantans 1642
        A. sticticus 1642
A. vexans 1642
Argas persicus 2042
Blattella germanica 1225
Cimex lectularius 1225, 2042
                                                                                               764
                                                                                      in mule, by Simuliidae 1929
in vertebrates, by Loxosceles reclusa 951
Bitoxibacillin (see Bacillus thuringiensis var.
                                                                                           thuringiensis)
        C. pipiens 1642
Culiseto
                                                                                      bivittatum, Simulium
bivittatus, Menemerus
                                                                                      Blaberus, body temperature in, measuring of
         Dermanyssus gallinae 2042
                                                                                             1261
    Menacanthus stramineus 2042
Musca domestica 1225, 1464
Panstrongylus megistus 2336
formulations of, slow-release 2336
                                                                                      Blaberus craniifer
                                                                                          anemotactic orientation in 740
                                                                                         anemotactic orientation in 740 control of 34 enzymes in 2321 methylprednisolone in, enhancing bovine-serum-albumin stimulated production of lysozyme 2321 pheromones in, review 34
    resistance to, in
        Culicidae, and cross-resistance 1857 Musca domestica, and cross-resistance
                                                                                          searching behaviour in 740
vitellogenesis in, accelerated by growth
regulators 743
Biospore (see Bacillus thuringiensis var.
      thuringiensis)
 bipilifer, Alabidopus
Birch (see Betula)
                                                                                      Blaberus discoidalis
                                                                                      agonistic behaviour in 999
mechanoreceptors in 742
Blaberus fuscus (see B. craniifer)
Birds
    arthropod parasites of, in Nova Scotia
    Culex spp. on, in Central African
Republic 3047
C. erraticus on, in Florida 1308
C. iolambdis on, in Florida 1308
                                                                                      Blaberus giganteus, enzymes in
Blaesoxipha, in Thailand 3143
blakei, Cheyletiella
                                                                                      Blankaartia acuscutellaris, taxonomy of,
                                                      1308
                                                                                      chaetotaxy 2581

Blastocrithidia, biology of 45
         quinquefasciatus on, in Delhi 2695
    Culicidae on
         in Czechoslovakia 2119
                                                                                      Blastocrithidia triatomae
    in Queensland 1291
Culicoides belkini on 1097
                                                                                              Reduviidae, confused with
    ectoparasites of, in New Jersey 28
Gamasinae on, in USSR 931
Ixodes arboricola on, in West Germany
1753
                                                                                                    Trypanosoma cruzi
                                                                                                                                        1019
                                                                                          Triatoma infestans 1016
morphology of 1016
                                                                                      Blastomycetes, in, insects in grocery shops, in East Germany 1832
    Ixodidae on, in Orissa 1204
mirex in, residues of 299
pyrethroids in, metabolism of 1466
Rhodnius pallescens on, in Panama Canal
                                                                                      Blatta lateralis
in USA 3006
                                                                                          in buildings, in Texas 3006
           Zone
                                                                                      Blatta orientalis
    Saint Louis encephalitis, virus in, in Brazil
                                                                                          bacteria in, in East Germany 1832
biology of 1507
control of 1507
          1050
Venezuelan equine encephalitis, virus in,
transport of 2779
Birds' nests, Heteroptera in, in Hungary
1543
                                                                                              insecticides for 465, 1509, 1806, 2319
                                                                                          traps for 481
descriptions of 1507
fungi in, in East Germany 1832
glycogen in, seasonal changes in 2322
hygienic importance of 460
in Fact Germany 1832
birmanicus, Metabinuncus
birulai, Corrodopsylla (Doratopsylla)
birulai, Doratopsylla (see Corrodopsylla
                                                                                          in East Germany
                                                                                                                          1832
      birulai)
 bishoppi, Eucheyletia
Bismarck archipelago, Culex spp. in 1580
                                                                                          in India 2322
                                                                                                          479
                                                                                          in Italy
 Bismarck Brown Y, for staining Triatoma
                                                                                          in UK 1507
infestans Malpighian tubules 1536 bispinosa, Haemaphysalis
                                                                                          in USA
                                                                                                          1509
                                                                                          in West Germany 460
```

| Blatta orientalis contd. | Blattella germanica contd. | Boettcherisca peregrina contd. |
|--|--|---|
| in dwellings, in California 1509 | insect growth regulators in, uptake from | epidermis in, effects of X-irradiation on |
| in foodstuffs, in Italy 479 | treated surfaces of 1002 | development of 2178 |
| in grocery shops, in East Germany 1832 | insecticides in, detecting repellency of | hempa in, effects of 2489 |
| in water-meter boxes, in California 1509 | 2319 | imaginal disks in, proteins in 2169 |
| insecticide susceptibility in, effects of | instar determination in 2051 | ovarian development in 2489 |
| temperature on 1806 learning in 486 | intracellular symbionts in 2301 | wing disks in, fate map for 615 |
| Salmonella typhimurium in, transmission | malathion resistance in, in South Korea 2052 | X-ray sensitivity in, age-related changes in |
| of 482 | marking of, radioisotopes for 52 | Boettcherisca septentrionalis, diapause in |
| Blattaria | mating in 2056 | 2878 |
| allergens of 675 | effects of juvenile hormones on 1828 | Bog-myrtle (see Myrica gale) |
| control of | methylmercury in, toxicology of 1270 | Bogs, Coquillettidia perturbans in, in |
| in East Germany 2318 | nymphal development in 2051 | Minnesota 154 |
| insecticides for 304, 316, 451, 975 | on man, hypersensitivity to 2701 | bohlsi, Polygenis |
| gregariousness in, review 35 | pheromones in, review 34 | Bolboceratini, <i>Paradoxiphis</i> spp. on, in |
| hindering rearing of Triatominae 1019 | population dynamics of 2060 Salmonella spp. in, on ocean-going ships | Australia 2893 Bolboderini, taxonomy of 1276 |
| in Belgium 1168 | 55 | bolina, Hypolimnas |
| in Fennoscandia 51 | searching behaviour in 740 | Bolivia |
| in Luxembourg 1168 | sperm precedence in 2056 | Culex penai in 353 |
| in Netherlands 1168 | taxonomy of, oothecal characters for | Otobius megnini in, on cattle 1992 |
| in Ryukyu Islands 707 | 1836 | Simuliidae in, on man 992 |
| in South Australia 8 | tepa in, effects on spermatogenesis of 54 | boliviensis, Ornithodoros |
| on man, hypersensitivity to 675, 969 salivary glands in, catecholamine receptors | tetramethrin resistance in, in USSR 248 urates in, utilisation of 2061 | Bombidae, volatile signals in, complexity of 32 |
| in 741 | Blattella orientalis (see Blatta orientalis) | Bombus |
| Salmonella spp. in, transmission of 969 | Blattodea (see Blattaria) | body temperature in, measuring of 1261 |
| Blattella germanica | Blesbok (see Damaliscus dorcas) | enzymes in 2540 |
| aggregation in 2060 | Blindness, WHO work on 1505 | venoms of 2540 |
| aggregation pheromone in, added to | Blomia tropicalis | wing-beat frequency of, measuring of |
| insecticides 2063 | in Brazil 1453 | 772 |
| anemotactic orientation in 740 | in Iran 1205 | Bombus jonellus, in Iceland 2537 |
| bacteria in, in East Germany 1832 | in Peru 273 | Bombus lucorum |
| bendiocarb resistance in, and cross- resistance 1513 | in house dust in Brazil 1453 | Hystrichopsylla talpae in nests of, in England 1286 |
| biology of 735, 1507 | in Iran 1205 | in UK 1286 |
| chlordene epoxide in, metabolism of | in Peru 273 | Bombyx mori |
| enantiomers of 2049 | Blood-coagulation factors, in Leucophaea | Bacillus thuringiensis in, not pathogenic |
| chlordene in, metabolism of enantiomers | maderae 3007 | 1296 |
| of 2049 | Blood, dried, diet component for, | male production in 1496 |
| chromosomes in, chiasma frequency in | Cochliomyia hominivorax 899 | bonneae, Chagasia |
| 1825 control of 34, 1507 | Blood meal, in fly attractants 2876 | Blook notices and reviews |
| baits for 3004 | Blood-meals in Aedes, significance of mixed sources of | Bland, R.G.; Jacques, H.E., How to know the insects (ed. 3) [En] 2996 |
| biological 3004 | 1914, 1915 | Bot, J.; Vermeulen, J.B.; Hollings, N., A |
| evaluating of 749 | in Aedes aegypti | guide to the use of pesticides and |
| genetic 3001 | digestion of 1652 | fungicides in the Republic of South |
| growth regulators for 705 | hormonal regulation of retention of | Africa (ed. 21) [En] 39 |
| insecticides for 248, 465, 699, 749, | 525 | Burton, J.J.S., Tabanini of Thailand above |
| 1003, 1066, 1225, 1228, 1242, 1265, | insemination not involved in regulating | the Isthmus of Kra (Diptera: |
| 1513, 1698, 2052, 2319, 3004, 3244 aggregation pheromone added to | size of 132 utilisation of 1628 | Tabanidae) [En] 1142 |
| 2063 | in Anopheles, sampling and interpreting | Crosskey, R.W. et al. (Editors), Catalogue of the Diptera of the Afrotropical |
| detecting repellency of 1004 | of, review 3057 | region [En] 3029 |
| courtship in 1823 | in Citellophilus tesquorum, digestion of | Derache, R. (Rapporteur), |
| cyclodiene insecticides in, activity of | 498 | Organophosphorus pesticides. Criteria |
| enantiomers of 1228 | in Stomoxys calcitrans | (dose/effect relationships) for |
| DDT resistance in, in South Korea 2052 | digestion of 1944, 2524 | organophosphorus pesticides [En] |
| descriptions of 1507 double translocation heterozygote in | measuring of 218 in Triatominae, identifying of 2081, | 307 Dönges I Parasitology [Del 2050 |
| 1526, 2328 | 3023, 3024 | Dönges, J., Parasitology [De] 2950 Gertsch, W.J., American spiders (ed. 2) |
| fat-body in, relation of uric acid and | Blowfly (see Calliphoridae) | [En] 1458 |
| symbionts in 1001 | Bluetongue | Glukhova, V.M., The larvae of midges of |
| flagella in, pruning of 1000 | in Cyprus 2444 | the subfamilies Palpomyiinae and |
| fungi in, in East Germany 1832 | review of 123 | Ceratopogoninae of the fauna of the |
| human pathogens in, transmission of 482 | Bluetongue virus | USSR (Diptera, Ceratopogonidae = Heleidae) [Ru] 554 |
| hygienic importance of 460 in Bermuda 1698 | in cattle | Godan, D., Snail and slug pests and their |
| in East Germany 642, 1832, 2060 | in Colorado 2809 | control [De] 2037 |
| in India 1268, 3004 | infectivity of 358 | Gräfner, G. (Editor), Diseases of game |
| in Italy 479 | Culicoides spp. | (revised ed.) [De] 2261 |
| in Japan 749 | in Kenya 2443 | Grassé, P.P. (Editor), Treatise of zoology. |
| in South Korea 2052 | in Northern Territory 358 | Anatomy, systematics, biology. |
| in UK 1507 in USA 1003, 1265 | transmission of 123 | Volume X. Higher insects and |
| in USSR 248 | C. varupennis in Colorado 2809 | Hemipteroidea. (First part) (second printing) [Fr] 2994 |
| in West Germany 460 | transmission of 2809 | Grundy, J.H., Medical zoology for |
| in bakery products 480 | livestock, in Canada 2964 | travellers [En] 2317 |
| in dwellings | sheep | Harwood, R.F.; James, M.T., Entomology |
| in Bermuda 1698 | in Cyprus 359 | in human and animal health (ed. 7) |
| in Illinois 1265 | infectivity of 358 | [En] 2308 |
| in Indiana 1265 | vectors of, windborne dispersal of 2444 | Hassell, M.P., The dynamics of arthropod |
| in North Carolina 1003 in foodstuffs, in Italy 479 | Bobcat (see Lynx rufus) Bodo edax, in, Reduviidae, confused with | predator-prey systems [En] 1255 Huismans, H., Animal parasites of the |
| in grocery shops, in East Germany 1832 | Trypanosoma cruzi 1019 | human eye [De] 1241 |
| in parasite-rearing laboratories, in India | Body weight, in fowl, effects of | Kaston, B.J., How to know the spiders |
| 3004 | Ornithonyssus sylviarum on 2023 | (ed. 3) [En] 2998 |
| in refrigerators, in East Germany 642 | Boettcherisca, in Thailand 3143 | Kenaga, E.E.; Morgan, R.W., Commercial |
| in restaurants, in Japan 749 | Boettcherisca peregrina | and experimental organic insecticides |
| in ships 55 in tortoise houses, in East Germany | diapause in, effects of photoperiod on 1682 | (1978 revision) [En] 954 Kerzhner, I.M. (Editor), The insects of |
| 2060 | embryonic development in 2489 | Mongolia. Part 6 [Ru] 1706 |
| | and a companion in 2107 | 112011001111111111111111111111111111111 |

```
Book notices and reviews contd.
     Kolabskii, N.A., Theileriosis of animals (ed. 2) [Ru] 2223
       Leake, L.D.; Walker, R.J., Invertebrate
               neuropharmacology [En] 1504
       Lumsden, W.H.R.; Evans, D.A. (Editors),
                Biology of the Kinetoplastida (vol. 2)
               [En] 41
     Mandell, G.L.; Douglas, R.G., Jr.;
Bennett, J.E., Principles and practice
of infectious diseases [En] 2279
     of infectious diseases [En] 22/9
McDaniel, B., How to know the mites and ticks [En] 2997
Mehlhorn, G. (Editor), Textbook of veterinary hygiene. Part I and Part II
     veterinary hygiene. Part I and Part II [De] 2036

Merritt, R.W.; Cummins, K.W. (Editors), An introduction to the aquatic insects of North America [En] 78

Miller, T.A., Insect neurophysiological techniques [En] 2258

Mittler, T.E.; Radovsky, F.J.; Resh, V.H. (Editors), Annual review of entomology (ed. 25) [En] 2297

Pankhurst, R.J., Biological identification [En] 436
     Pesson, P. (Editor), Pesticides and game, diseases of game [Fr] 305 Poinar, G.O., Jr.; Thomas, G.M., Diagnostic manual for the
                identification of insect pathogens [En]
                2031
      Sasa, M.; Takahashi, H.; Kano, R.
                Tanaka, H. (Editors), Animals of medical importance in the Nansei
     Islands in Japan [En] 706
Schwerdtfeger, F., Animal ecology. A text- and handbook in three parts.
Volume II: demecology. Structure and
                dynamics of animal populations (ed. 2) [De] 957
     Seymour, P.R. (Compiler), Invertebrates of economic importance in Britain.
     Common and scientific names (ed. 3) [En] 2958
Sholdt, L.L.; Holloway, M.L.; Fronk, W.D., The epidemiology of human pediculosis in Ethiopia [En] 62
Slater, J.A.; Baranowski, R.M., How to know the true bugs (Hemiptera-Heteroptera) [En] 2999
Sloss, M.W.; Kemp, R.L., Veterinary clinical parasitology (ed. 5) [En] 977
Treherne, J.E.; Berridge, M.J.; Wigglesworth, V.B. (Editors), Advances in insect physiology (vol. 14) [En] 997
                Common and scientific names (ed. 3)
   Advances in insect physicials, [En] 997
Whitfield, P.J., The biology of parasitism: an introduction to the study of associating organisms [En] 475
Wittmer, W.; Bütticker, W. (Editors), Fauna of Saudi Arabia. Vol. I 1979
[En,De,Fr] 1232
Worthing, C.R. (Editor), The pesticide manual. A world compendium (ed. 6)
[En] 2032
Zaman, V., Atlas of medical parasitology
[En] 2985
 Boophilus
       acaricide resistance in, in South Africa
                2016
      Anaplasma spp. in, transmission of 2682
A. marginale in, transmission of 2683
Babesia spp. in, transmission of 2682,
2683
       control of
             eradication for 661
              review 2296
 Boophilus annulatus
       control of
      control of acaricides for 266, 1746, 2553, 3245 quarantine for 1202 in Sudan 2007 in USA 1202, 2553 on cattle, in Texas 2553 on Odocoileus virginianus, in Texas 1202 taxonomy of, characters distinguishing B.
                microplus and 1756
 Boophilus calcaratus
       control of, acaricides for 246
habitats of 2613
in Italy 2613
in USSR 1187
```

```
Boophilus calcaratus contd.
   in Yugoslavia 2217
Boophilus decoloratus
   acaricide resistance in, analysis of survey
        data on 2551
   control of, acaricides for 644
   in Kenya 644
in South Africa 655
   in Zimbabwe 654, 1182
   on cattle
      in South Africa 655
in Zimbabwe 654, 1182
   population dynamics of 1182
seasonal abundance of 655
   toxaphene resistance in, in Kenya 644
Boophilus microplus
acaricide resistance in 2550, 2678, 2680
      analysis of survey data on 2551 in Brazil 2616
      management of 645
   acclimation in 2679
allergens of 2587
   Anaplasma marginale in
      not transmitted transovarially 2628
      transmission of 2132
   Babesia spp. in, transmission of
   B. bigemina in, transmission of 719
   B. bovis in
   development of 924
transmission of 719
biology of 2677, 2678, 2679
chloromethiuron in, toxicity of 2599
   2897, 3245
economics of 2679, 2681
integrated 2685
models of 1752
pasture spelling for 1752
strategies for 645
DDT resistance in 1199
   dioxathion resistance in, inheritance of
   distribution of 2677
   drop-off in, effects of photoperiod on
         2954
   eggs of, separating from females of 1184
   feeding in, effects of photoperiod on 2954
   habitats of 1203
   host preferences in 1203
   in Australia 252, 261, 645, 1199, 1201, 1752, 2311 in Brazil 2616, 2677, 2678, 2679, 2680,
   in Colombia 1761
in India 48, 268, 1203, 1436
in Japan 719
  in Japan
in Mexico 1990
in USA 2553
intercellular junctions in 1765
   in Punjab 268
in Uttar Pradesh 1203
on Bos indicus × B. taurus
attachment of 1755
       density-dependent mortality of
      effects on conception of 252 effects on growth rate of 252
   resistance to 261 on camel, in Punjab 268
   on cattle
       attachment of 1755
       density-dependent mortality of 1201 development of 2678
       effects of 1761
       in Brazil 2677, 2679, 2680, 2681
       in Nansei Islands 719
in Punjab 268
      in Queensland 645
in Texas 2553
in Uttar Pradesh 1203
resistance to 261, 1752, 2547, 2678,
           3202
   on dog, in Punjab 268
on mouse, attachment of 1755
   on zebu, density-dependent mortality of
    oviposition in 2229
       effects of acaricides on 2598
```

```
Boophilus microplus contd.
    permethrin resistance in 1199
population dynamics of 261, 1201
    preyed on by, Solenopsis geminata, in
Mexico 1990
    proteins in, effects of acaricides on 2598
    races of 2679
    salivary glands in 926, 1186
    taxonomy of, characters distinguishing B.
         annulatus and 1756
    Theileria spp. in, not transmitted 2225 trypsin inhibitor in, characterization of 2587
Boophthora erythrocephala (see Simulium erythrocephalum)
Boopidae, on mammals, in Texas 1530
Borborus geniculatus (see Copromyza atra)
Bordeaux red, for staining Triatoma infestans Malpighian tubules 1536
Bordetella bronchiseptica, in, Monomorium pharaonis, transmission of 460
 borealis, Leptoconops
Borneol (see Bicyclo[2.2.1]heptan-2-ol, 1,7,7-
     trimethyl-)
Borrelia
       Argasidae, transmission of 411 man, in Colorado 2615
       Ornithodoros spp., transmission of
            2615
 Borrelia anserina
    immunologic types of 405
    Argas persicus, in Pakistan 3193
A. sanchezi, transmission of 405
fowl, in USA 405
poultry, in Pakistan 3193
serologic types of 405
Borrelia caucasica
       man, in Caucasus 3199
        Ornithodoros verrucosus 3199
 Borrelia recurrentis, in, Phthiraptera, transmission of 411
 Borrelia theileri, in, Ixodidae, transmission of 411
 Bos bubalis (see Buffalo, Asian)
Bos indicus (see Zebu)
Bos indicus × B. taurus
Amblyomma americanum on, resistance
         to 1194
    Boophilus microplus on attachment of 1755
        density-dependent mortality of 1201
effects on conception of 252
effects on growth rate of 252
resistance to 261

Bos taurus (see Cattle)
 Boselaphus tragocamelus, Ixodidae on, in
Assam 48
bosseri, Uranotaenia
 Bothromesostoma personatum
    preving on
        Anopheles freeborni, in California 103
        Culex tarsalis, in California 103
 Bouboui virus, in, Aedes spp., in Senegal
 bougainvillensis, Culex
Bounty Island, Siphonaptera in 769
 Bovicola (see Damalinia)
Bovicola (see Danialinia)
Bovicola alpina (see Damalinia alpina)
Bovicola crassipes (see Damalinia crassipes)
Bovicola equi (see Werneckiella equi)
Bovicola fulva (see Damalinia fulva)
 Bovicola multispinosa (see Damalinia
     multispinosa)
 Bovidae
    Glossina fuscipes on, in Uganda 3
G. pallidipes on, in Uganda 3133
 Bovine rhinotracheitis virus, in, Musca
     autumnalis, transmission of 2513
bovis, Chorioptes
bovis, Damalinia
bovis, Hypoderma
bovis, Psoroptes (see P. ovis)
 Brachycera, in Finland 2728
Brachygaster minutus
    in Denmark
    parasitising, Ectobius panzeri, in Denmark 753
 Brachymeria podagrica
descriptions of 1963
    in Bangladesh 1963
```

| Subject Index | | 453 |
|--|--|---|
| Brachymeria podagrica contd. parasitising, Sarcophaga misera, in | British Columbia Aedes togoi in 140 | brunneri, Gromphadorhina (see Elliptorhina brunneri) |
| Bangladesh 1963 | Dermatophagoides farinae in, in house | Bryobia praetiosa |
| Brachypodidae, Rhodnius pallescens on, in Panama 3024 | dust 2014 | in USA 1259 |
| Bradycardia | D. pteronyssinus in, in house dust 2014 Simulium venustum in 1666 | on man, in Indiana 1259 Bubalus bubalis (see Buffalo, Asian) |
| in dog, caused by Buthus tamulus venom | British Isles | Bubo virginianus |
| 3236 | Psectrocladius spp. in 2187 | Androlaelaps fahrenholzi in nests of, in |
| in rabbit, caused by Buthus occitanus | Sepsidae in 2184 | New York 1991 |
| venom 3237 Bradykinin, in cattle, not causing | bromeliae, Aedes Bromfenvinfos (2-bromo-1-(2,4- | Hectopsylla psittaci on, in California 2352 |
| detachment of Boophilus microplus | dichlorophenyl)ethenyl diethyl | Bubulcus ibis, Quaranfil virus in, in Egypt |
| 3202 | phosphate) | 2903 |
| Bradypus griseus, Leishmania herreri in, in | against, Musca domestica 1471, 2938 in Musca domestica, cholinesterase | bubulus, Sarcoptes scabiei (see S. scabiei) buccata, Cuterebra |
| Costa Rica 1099 Brain abscess, in man, associated with nasal | inhibition by 2938 | Buck, black (see Antilope cervicapra) |
| myiasis 884 | bromius, Tabanus | Buenoa scimitra |
| brasiliensis, Sturnophagoides | Bromocyclen (5-(bromomethyl)-1,2,3,4,7,7-hexachlorobicyclo[2.2.1]hept-2-ene) | cannibalism in 99 in USA 98 |
| brasiliensis, Triatoma brasiliensis, Xenopsylla | against | in ponds, effects of insecticides on 98 |
| brassicae, Pieris | Haematopinus suis, on pig 2926 Lucilia sericata, on cat 2502 | preying on |
| Brazil | Psoroptes spp. | Culex quinquefasciatus 99 C. tarsalis, in California 98 |
| Aedes aegypti in 1063 | on cattle 2239 | buettikeri, Gamasodes |
| A. scapularis in 125, 3056 A. serratus in 3056 | on sheep 2239 Sarcoptes scabiei, on pig 2926 | Buffalo, African (Syncerus caffer) |
| Anopheles spp. in, on man 2801 | Bromophos (O-(4-bromo-2,5-dichlorophenyl) | Glossina pallidipes on, in Uganda 2830 Buffalo, Asian (Bubalus bubalis; water |
| A. aquasalis in 1913 | O,O-dimethyl phosphorothioate) | buffalo) |
| A. cruzii in 348 | against, Musca domestica, in cattle sheds 2515 | Acedes poicilia on, in Philippines 1312 |
| A. darlingi in 335, 1057, 1572 on man 1338, 2793 | in cattle sheds, persistence of 2515 | Anopheles stephensi on, in Pakistan 129 Boophilus microplus on, in Uttar Pradesh |
| A. nuneztovari in 1572 | resistance to, in, Musca domestica, in | 1203 |
| Boophilus microplus in 2616 | West Germany 2504, 3160, 3167 | DDT in, effects on skin of 3249 |
| on cattle 2677, 2678, 2679, 2680, 2681 cattle diseases in 2682, 2683 | Bromophos-ethyl (O-(4-bromo-2,5-dichlorophenyl) O,O-diethyl | fenitrothion in effects on skin of 3249 |
| Chagas' disease in 67, 2077 | phosphorothioate) | toxicity of 1229 |
| Chagasia bonneae in, on man 155 | against, Culex pipiens 2743 | Haematobia irritans on |
| Cochliomyia hominivorax in 2687 on man 2505 | in roadside drains, persistence of 2743 resistance to, in, <i>Musca domestica</i> , in | in India 1937 in Karnataka 2017 |
| Culex spp. in 125, 1555, 3056 | West Germany 3160, 3167 | Haematopinus tuberculatus on |
| Mallophaga on 1290 C. quinquefasciatus in 1572 | Bronchitis in man | in Japan 708 in Pakistan 61 |
| Culicidae in 350 | caused by Periplaneta americana 2327 | in Rajasthan 1010 |
| Cuterebra apicalis in, on rodents 205 | role of house-dust mites in 1217 | Hyalomma anatolicum on, distribution |
| Dermatobia hominis in on cattle 204 | bruchi, Triatoma (see T. rubrovaria) Brugia, in, Anopheles pharoensis, in East | pattern of 2602 Ixodidae on, in Punjab 268 |
| on man 1677 | Africa 550 | malathion in |
| on zebu 2154 | Brugia malayi | effects on skin of 3249 |
| Lutzomyia anduzei in, flagellates in 1100 L. dispar in, on man 1663 | n Aedes aegypti | toxicity of 1229 mites on, in Haryana 2646 |
| L. fischeri in 1102 | damage to 2371 | Nosomma monstrosum on, in Jammu and |
| L. umbratilis in, flagellates in 1100 | infectivity of 3078 | Kashmir 646 |
| malaria in 1057 mites in, in house dust 1453 | transmission of 792 A. togoi | Psoroptes equi on, in Egypt 270 Rift Valley fever, virus in, in Egypt 236. |
| mosquito control in 2034 | damage to 2371 | Sarcoptes scabiei on, in Egypt 270 |
| Musca domestica in, natural enemies of | transmission of 2405 | Buffalo (Asian) dung, Scarabaeidae in, in |
| 2867 Panstrongylus megistus in 67, 1018 | Anopheles spp., damage to 2371 Armigeres subalbatus, transmission of | Egypt 2156 Buildings |
| flagellates in 68 | 2405 | arthropod pests in, in Netherlands 315 |
| in poultry houses 2069, 2070 | Culex quinquefasciatus, damage to | Blatta lateralis in, in Texas 3006 |
| on man 961 Polygenis bohlsi in, on rodents 2085 | 2371 Meriones unguiculatus | Bulgaria Anoplura in, on small mammals 1287 |
| P. frustratus in, on rodents 771 | infectivity of 792 | Diptera in, in livestock farms 877 |
| P. tripus in, on rodents 497 | localisation of 792 | Gamasinae in 1777 |
| Raillietia auris in, on sheep 2230 Rhodnius neglectus in, in poultry houses | mosquito cell lines, development of exsheathed microfilariae of 345 | Gamasoidea in, on small mammals 1778 Glyptotendipes barbipes in 598 |
| 2069 | Toxorhynchites amboinensis, | mites in, in house dust 1779 |
| Sarcophagidae in 2856, 2890 Simulium spp. in, on man 1338 | development of 2735 Brugia pahangi | Siphonaptera in 330 on small mammals 1287 |
| S. fulvinotum in, natural enemies of | in | bullata, Sarcophaga |
| 1373 | Aedes aegypti | bundyensis, Culicoides |
| Siolimyia amazonica in 603 Tityus bahiensis in 963 | development of, effects of diet on 16 effects on enzymes of 1051 | α-Bungarotoxin, in <i>Periplaneta americana</i> , blocking trochanteral hairplate afferents |
| Triatoma infestans in 2337 | effects on methionine synthesis of | 3013 |
| flagellates in 2707 | 17 | Bunyamwera virus |
| on man 961 T. sordida in | not affecting thymidylate synthase 2419 | Aedes albopictus, replication of 2088 |
| flagellates in 2707 | stimulating methionine synthetase | hamster, replication of 2088 |
| in poultry houses 2069, 2070 on man 961 | 1571 transmission of 792 | Bunyamwera viruses, classification of 527 |
| T. tibiamaculata in, flagellates in 2709 | Armigeres subalbatus, development of | Bunyaviridae in |
| Triatominae in 1015, 1279, 2077 | 517 | Culex spp., transmission of 2968 |
| flagellates in 2078 in dwellings 75 | Meriones unguiculatus infectivity of 792 | Culicidae, transovarial transmission of 2969 |
| brethesi, Rhodnius | localisation of 792 | vectors of 2961 |
| breviatus, Pteracarus | mosquito cell lines, development of | Bunyavirus, in, Culicidae, in French Guiana |
| breviclavus, Herpetacarus brevimanubrium, Paraceras | exsheathed microfilariae of 345 Toxorhynchites amboinensis, | 2732 Burma |
| brevipalpis, Glossina | development of 2735 | Xenopsylla astia in, on Bandicota 2714 |
| brevipalpis, Toxorhynchites | brumpti, Argas | X. cheopis in, on Bandicota 2714 |
| Brewers' yeast, diet component for, Ophyra | brunhesi, Uranotaenia brunnea, Periplaneta | burneyi, Phlebotomus kandelakii Burning, controlled |
| aenescens 908 | brunneri, Elliptorhina (Gromphadorhina) | role in control of ectoparasites of 925 |
| | | |

```
Burning, controlled contd.
     role in tick control of 2547
 hursa. Ornithodoros
 bursa, Rhipicephalus
 Burundi
     Ctenocephalides felis in, on man 2718 onchocerciasis in 854, 2452
     Pulex irritans in, on man 2718
     Simulium damnosum in, on man 854
Bushbuck (see Tragelaphus scriptus)
Bushpig (see Potamochoerus aethiopicus)
1,3-Butadiene, polymer with ethenylbenzene and 2-propenenitrile, slow-release insecticide formulations in 2336
1,4-Butanediamine, N-(3-aminopropyl)-, in

Atrax robustus venom 2660
1,4-Butanediamine, N,N'-bis(3-
aminopropyl)-, in Atrax robustus venom
 Butanedioic acid, [(dimethoxyphosphinothio-
yl)thio]-, diethyl ester (see Malathion)

1,3-Butanediol, in Tyrophagus putrescentiae,
metabolism of 1975
 Butanoic acid
     attractant for
    Musca domestica 208
Muscina stabulans 208
coattractant for, Hippelates spp. 208
in Culex quinquefasciatus, toxicity of
     repellent for, ovipositing Culex spp. 97 heptyl ester, with octyl butanoate, attractant for, Vespula squamosa
     octyl ester, with heptyl butanoate, attractant for, Vespula squamosa
             1176
 2,2,2-trichloro-1-(dimethoxyphosphinyl)et-
hyl ester (see Butonate)
Butanoic acid, 4-amino-, in Atrax robustus
venom 2660

Butanoic acid, 3-methyl-, oviposition repellent for, Culex spp. 97, 2791

1-Butanol, 2-amino-, in Musca domestica diet, effects on sterols of 381
 2-Butanone
2-Butanone
in Glossina austeni, toxicity of 303
in Stomoxys calcitrans, toxicity of 303
butantanensis, Hirstionyssus
2-Butenamide, N-ethyl-N-(2-methylphenyl)-
(see Crotamiton)
2-Butenedioic acid, diethyl ester, (Z)-,
synergist for, diflubenzuron 903
2-Butenoic acid, 3-[(dimethoxyphosphinyl)o-
xy]-, 1-phenylethyl ester, (E)- (see
Crotoxyphos)
        Crotoxyphos)
2-Butenoic acid, 2-methyl-, 1-(1,4-dihydro-
5,8-dihydroxy-1,4-dioxo-2-naphthalenyl)-
4-methyl-3-pentenyl ester, in Aedes
aegypti, toxicity of 127
Buteo buteo, Ixodes ricinus on, in West
Germany 2218
 Buthidae
     in Saudi Arabia 1233, 1234
in Turkmenia 2935
in Venezuela 687
      on man, in South Africa 679
 Buthotus saulcyi
in Iran 2932
venom of 2932
Wenom of 2932

Buthus occitanus, venom of 3237

Buthus tamulus, venom of 3236

Butonate (2,2,2-trichloro-1-
(dimethoxyphosphinyl)ethyl butanoate)
against, Caloglyphus berlesei, on sheep
1775

Button omitten in proidure of 1106
 Butter, amitraz in, residues of 1196
 Buttonwillow virus, in, Aedes dorsalis, replication of 1578
Butyric acid (see Butanoic acid)
 Byrsotria fumigata, agonistic behaviour in 999
 caballi, Demodex
 caballus, Aedes
Cabassou virus, in, Culicidae, in French
Guiana 2732
  Cacao (Theobroma cacao)
 Cacao plantations
      Glossina spp. in, in Ivory Coast 5
G. palpalis in, in Ivory Coast 572
 Cache Valley virus
           Aedes vexans, in Saskatchewan 1089
```

```
Cache Valley virus contd.
   in contd.
        Culex tarsalis, in Saskatchewan 1089
       Culiseta inornata, in Saskatchewan
              1089
cadaverina, Cynomyopsis
Cadmium
   in Aedes aegypti, inhibition of larval
in Aedes aegypti, innibition of larval negative phototaxis by 346 ion (Cd<sup>2+</sup>), in Phormia regina, effects on sugar receptors of 2847 caesarion, Orthellia (see O. viridis) Caffeine (see 1H-Purine-2,6-dione, 3,7-dihydro-1,3,7-trimethyl-)
cajennense, Amblyomma calcaratus, Boophilus
calcarifer, Ceratophyllus (see Megabothris
     calcarifer)
calcarifer, Megabothris (Ceratophyllus)
calcitrans, Stomoxys
Calcium
    ion (Ca2+)
       in (Ca**)
in Amblyomma americanum, role in salivation of 1757, 1978, 1981
in Calliphora vicina, effects on visual sense cells of 1726
in Calliphora vicina salivary glands, role in salivation of 1139, 1140
in Lucilia cuprina flight-muscle
              mitochondria, transport of 2179
        in Periplaneta americana nervous
       system, effects of toxaphene on movement of 3000 in Phormia regina, effects on sugar receptors of 2847
       in rat
           effects of Latrodectus
                 tredecimguttatus venom on 2252
            effects on levarterenol release from
                 arteries by Latrodectus venom
                  1801
        in rat diet, effects on ticks of 410
Calcium sulfide (Ca(S<sub>x</sub>)), against, Notoedres cati, on Uncia uncia 1446
calderwoodi, Ceratophyllus
California
    Aedes melanimon in 1850
natural enemies of 100
A. nigromaculis in 2744
    in irrigated pastures 115, 1611, 1866

A. sierrensis in 89, 164
in tree holes 88
        natural enemies of 1864
    A. vexans in 94
    Anopheles franciscanus in 116
    A. freeborni in
    in rice-fields 90, 101, 107, 1865
natural enemies of 103, 1883, 2761
Blatta orientalis in, in water-meter boxes
          1509
   Ceratopogonidae in, in salt marshes 2442
Chaoborus spp. in, in ponds 211
C. astictopus in 2481, 2482, 2483, 2484
in farm ponds 101
natural enemies of 2485
     Chironomidae in
        in flood-control channels 1859, 2491
                                            889
        in recreational lakes
in rice-fields 1137
        natural enemies of 2804
     Chironomus spp. in, natural enemies of
          1136
    Culex erythrothorax in 2796
on man 1884
C. peus in, in catch basins 114
C. pipiens in 1593
in catch basins 113
    in drainage systems 1888
C. quinquefasciatus in 1852
        in catch basins 114
    on man 1884
C. tarsalis in 91, 92, 94, 116, 797, 1314, 1352, 1353, 1850, 1852, 1858, 1876, 2744, 2796
        in irrigated pastures 1866
in rice-fields 90, 107, 1865
        natural enemies of 98, 100, 103, 1883,
              2761
    on man 1884
Culicidae in 86, 95
         in cemeteries
        in flood-control channels 1859
        in irrigated pastures
```

```
California contd.
    Culicidae in contd.
viruses in 85, 1851
    Culiseta inornata in 93, 116
    Dermacentor variabilis in, on Urocyon
    Diptera in, in solid waste 207
    dung-breeding flies in, natural enemies of
          1724
    encephalitis surveillance in 134
fly control in 207, 2872, 2873, 2874
Gasterophilus intestinalis in 2478
G. nasalis in, on horse 1680
    Haematobia irritans in, in cattle dung
    Hectopsylla psittaci in, on Petrochelidon 2352
    Hemiptera in 1567
    Hybomitra californica in 1711
H. sonomensis in 1711
    H. sonomensis in 1711
Lepidoptera in, on Dipodomys 3186
Lucilia cuprina in 2873
L. illustris in, on Procyon 2850
Menemerus bivittatus in, in dwellings
    295
midge control in 2877
mosquito control in 84, 134, 1872, 1873,
1874, 1875, 1888, 3065, 3066
mosquito surveillance in 1851
    Musca autumnalis in
        in cattle dung 210
    natural enemies of 386

M. domestica in 2873, 2875

Ornithodoros coriaceus in, natural enemies of 1429

Ornithonyssus sylviarum in, on fowl
          2928
    Paralucilia wheeleri in, on Procyon 2850
    Pediculus capitis on, on man 1274
P. humanus in, on man 1274
    Prosimulium exigens in, natural enemies
          of 1108
    Psorophora columbiae in 2744
    P. confinnis in 94
    Pthirus pubis in, on man 1274
Simuliidae in 191
Siphonaptera in
        on Spermophilus 1283
on Vulpes fulva 2712
    Symphoromyia spp. in, on Odocoileus
    Triatoma protracta in, flagellates in 2705
Triatominae in, in Neotoma dens 66
California encephalitis (see Encephalitis,
      California)
California viruses
    ecology of, review 826 hosts of 826
    in, Culicidae, transovarial transmission of 2969
vectors of 826
californica, Hybomitra
californicum, Chalybion
californicus, Dicrotendipes
californicus, Pogonomyrmex
calitornicus, Pogonomyrme
Caligula japonica arisana
in Japan 710
on man, effects of 710
calisheri, Catallagia
calleva, Musca domestica
callidum, Simulium
Calliphora
    body temperature in, measuring of 1261 landing response in 1412 on sheep, in Romania 2529
    pupation in, hormonal regulation of 2160
    tissue cultures from 2299
Calliphora albifrontalis
control of 38
in Australia 38, 1138
on sheep, in Australia
                                            1138
Calliphora augur
biology of 2506
control of 2506
illustrations of 2506
in Australia 2506
    larval development in 579
    on sheep, damage caused by
 Calliphora erythrocephala (see C. vicina)
 Calliphora nociva
    control of 38
in Australia 38, 1138
```

| Calliphora nociva contd. | Calliphoridae contd. | Canada contd. |
|--|---|--|
| larval development in 579 | control of contd. | veterinary entomology in 2694 |
| on sheep, in Australia 1138 | pizzle dropping for 227 | canadensis, Aedes |
| Calliphora peruviana | traps for 466 | Canals, Culicoides molestus in, in |
| in Costa Rica 2532 | in Peninsular Malaysia 1950 | Queensland 3109 |
| in human cadavers, in Costa Rica 2532 | in Ryukyu Islands 717 | Canary (Serinus canarius) |
| Calliphora stygia | in South Korea 378 | arthropod parasites of, detecting of 669 |
| biology of 2506 | in Uganda 3180 | pest control on 669 |
| control of 2506 | in carcasses, in California 207 | Canaural (see Framycetin, with fusidic aci |
| illustrations of 2506 in Australia 2506 | in horse dung, in Queensland 911 in livestock farms, in Bulgaria 877 | nystatin, and prednisolone) |
| moulting hormones in, precursors of | in mouse carcasses, in Denmark 735 | Canavanine (see L-Homoserine, O- |
| 627, 1810 | on man, in Italy 969 | [(aminoiminomethyl)amino]-) cancer, Deinocerites |
| on sheep, damage caused by 2506 | on sheep, in Queensland 227 | cancer, Democernes canestrinii, Haemaphysalis |
| Calliphora vicina | parasitic, book 2950 | canicularis, Fannia |
| activity in, monitoring of 6 | preyed on by, Corvus frugilegus, in New | canis, Ctenocephalides |
| air resistance of 731 | Zealand 1396 | canis, Demodex |
| biology of 1141 | Calliphorin | Canis familiaris (see Dog) |
| calliphorin in, sites of synthesis and | in Calliphora vicina | Canis latrans |
| deposition of 3170 | ecdysterone inhibiting synthesis in fat- | arthropod parasites of, in Indiana 1256 |
| control of, insecticides for 604 | body of 1159 | Heterodoxus spiniger on, in Texas 1530 |
| cuticle in | sites of synthesis and deposition of | Suricatoecus quadraticeps on, in Indiana |
| conformation of proteins in 1713 | 3170 | 57 |
| hardening and coloration of 2693 | Callitroga hominivorax (see Cochliomyia | Canis latrans × C. rufus, Trichodectes can |
| diapause in 2878 | hominivorax) | on, in Texas 1530 |
| embryonic development in 600, 874, | Callosciurus, Echinonyssus distinctitarsus | Canis lupus |
| 2174 | on, in Thailand 2235 | Ehrlichia canis in, in Florida zoo 2591 |
| Entomophthora virulenta in, pathogenicity | Callosciurus caniceps, Sciurochirus | Lipoptena cervi on, in Finland 2859 |
| of 1470 enzymes in 1699, 1712, 1721, 2176, 2509 | thailandiae on, in Thailand 280 | Rhipicephalus sanguineus on, in Florida |
| eyes in, fluorescent substances in 1131 | Callosciurus mcclellandii, Macrostylophora cuiae on, in China 2343 | zoo 2591 Canis lupus × C. familiaris |
| fat-body in 2509 | Callosciurus notatus, Echinonyssus | Ehrlichia canis in, in Florida zoo 2591 |
| development of 1961 | harpagonis on, in Kalimantan 2235 | Rhipicephalus sanguineus on, in Florida |
| flight activity in 611 | Callosciurus swinhoei, Macrostylophora | zoo 2591 |
| flight-muscle sarcosomes in, recovery from | congjiangensis on, in China 2343 | canis, Sarcoptes scabiei (see S. scabiei) |
| heat damage of 1690 | calloti, Culicoides | canis, Trichodectes |
| head in, mechanoreceptors on 1727 | Caloglyphus berlesei | canisuga, Ixodes (Pholeoixodes) |
| head movements in, caused by haltere | control of, acaricides for 1775 | canisuga, Pholeoixodes (see Ixodes |
| deflections 2855 | in East Germany 1775 | canisuga) |
| heartbeat in, regulation of 2844 | on sheep, effects of 1775 | Cannery waste, Diptera in, in California |
| hemocytes in 1699 | Calomys callosus | 207 |
| cell cycle time of 1413 | Cuterebra apicalis on, in Brazil 205 | Cannibalism |
| hemolymph in, amino acids in 619 | Polygenis bohlsi on, in Brazil 2085 | Aedes sierrensis 1881 |
| in UK 1141 | Calomys laucha, Atelepalme ralfi on, in | Anopheles pharoensis 2763 |
| larval development in, hemolymph volume during 597 | Venezuela 278 calviceps, Lucilia | Buenoa scimitra 99 Chrysomya rufifacies 1715 |
| larval intestinal cells in, degeneration of | Calvolia domicola | Notonecta unifasciata 99 |
| 1958 | sp. nov., description of 2636 | Sarcophaga ruficornis 1715 |
| Malpighian tubules in, hormonal | in Japan 2636 | cantans, Aedes |
| regulation of fluid secretion in 1719 | in house dust, in Japan 2636 | cantator, Aedes |
| mid-gut in, muscles in 214 | Calyptrata | Cantharidin, in domestic animals, detecting |
| moulting hormones in | feeding behaviour in 610 | of 910 |
| effects of external factors on 1692 | hosts of 610 | Canthon pilularius, in USA 1740 |
| enzyme induction by 1721 | Calystegia, insect growth regulator activity | capensis, Ornithodoros |
| inhibiting protein synthesis in fat-body | of extracts of 1341 | Capensomyia, subgen. nov., description of |
| 1159 | Camel (Camelus bactrianus and C. | 3113 |
| metabolism of 3151 | dromedarius) | capillatus, Solenopotes |
| role in development of 1712 | Arcyophora longivalvis on, in Saudi | capitis, Pediculus |
| nervous system in 2186, 2855 | Arabia 1236 | caponis, Lipeurus Capra hircus (see Goat) |
| oogenesis in, effects of diet on 1723 peritrophic membranes in, effects of | Hippobosca camelina on, in Israel 2992 Ixodidae on, in Punjab 268 | Capra pyrenaica |
| polyoxin D on synthesis of 2172 | mites on, in Haryana 2646 | Damalinia alpina on, in Spain 1481 |
| phototaxis in 1939 | pest control on 2044 | D. crassipes on, in Spain 1481 |
| proboscis in, muscular movement of | Psoroptes spp. on, in Mongolia 2044 | caprae, Demodex |
| 2190 | Rift Valley fever, virus in, in Egypt 2362 | Capric acid (see Decanoic acid) |
| pulvilli in, as adhesive organs 1725 | Sarcoptes spp. on, in Mongolia 2044 | Caproic acid (see Hexanoic acid) |
| salivary glands in, RNA in 230 | S. scabiei on, in Egypt 270 | Capsella bursa-pastoris, insecticidal activity |
| salivation in 1139, 1140 | Wohlfahrtia magnifica on, in Mongolia | of mucilaginous seeds of 2120 |
| salt receptors in, discrimination by 1728 | 2044 | Captan (3a,4,7,7a-tetrahydro-2- |
| swine vesicular disease virus in | cameli, Sarcoptes scabiei (see S. scabiei) | [(trichloromethyl)thio]-1 <i>H</i> -isoindole- |
| persistence of 2510 | camelina, Hippobosca | 1,3(2H)-dione) |
| trans-stadial transmission of 2510 vision in 1685, 1686 | Camelus bactrianus (see Camel) Camelus dromedarius (see Camel) | against, Catenaria anguillulae, in Romanomermis 105 |
| visual neurons in, sex differences in 2186 | cameroni, Anopheles | captiosa, Hoplopleura |
| visual system in 1726 | cameroni, Spalangia | Carabidae, Aedes sierrensis eggs not eaten |
| wing-beat frequency of, measuring of | Cameroon | by 1885 |
| 772 | Culicidae in 1074, 2729 | Carassius auratus |
| Calliphora vomitoria | Simuliidae in 2729 | insect growth regulators in, effects on |
| accessory glands in 625 | Simulium spp. in 1074 | swimming behaviour of 955 |
| biology of 1141 | Campanulotes | toxaphene components in, toxicity of 6 |
| cuticle in | on Columba palumbus, in Spain 1480 | Carbachol, in Periplaneta americana, |
| mechanism of tanning of 871 | on pigeon, in Spain 1480 | blocking trochanteral hairplate afferents |
| stability of proteins in 1720 flight muscles in, development of 1953 | Campbell Island, Siphonaptera in 769 campestris, Anopheles | 3013 Carbamic acid, (5-benzoyl-1 <i>H</i> -benzimidazo |
| in UK 1141 | campestris, Anopheies | 2-yl)-, methyl ester (see Mebendazole) |
| male accessory glands in, role in sexual | Camping grounds, Tabanidae in, in USA | Carbamic acid, 1,4-butanediylbis[propyl-, |
| activity of 226 | 2862 | dimethyl ester, repellent for, Aedes |
| mating in 625 | Canada (see also individual Provinces and | aegypti 2741 |
| neurosecretory system in 1730 | Territories) | Carbamic acid, [1-[(butylamino)carbonyl]- |
| Calliphoridae | arthropod pests in 1263 | 1H-benzimidazol-2-yl]-, methyl ester (s |
| communities of, in various habitats 907 | insects in, book 2996 | Benomyl) |
| control of | medical entomology in 2694 | |
| mulesing for 38 | pest control in, cost of 2039 | |

Cat contd.

of 583

in pastures, persistence of 660 in Tropisternus lateralis, toxicity of 1854

Carbamic acid, [[4-(1,1-dimethylethyl)-2-Brugia malayi in, mosquito transmission in turkeys, toxicity of 306 methylphenyl]thio]methyl-2-(1-methylethoxy)phenyl ester resistance to, in, Ornithonyssus sylviarum, of 2405 in Apis mellifera in USA 421 Buthus occitanus venom in, cardiovascular penetration of synergists for, Pimpinella anisum extracts effects of 3237 metabolism of 904 as 2668 Chevletiella spp. on, effects of 417 with pyrethrins, against, Walchia C. blakei on in Musca domestica penetration of 904
metabolism of 904
Carbamic acid, 1,2-ethanediylbis[butyl-,
dimethyl ester, repellent for, Aedes
aegypti 2741 americana, on cat 2024
Carbetox (see Malathion)
Carbofuran (2,3-dihydro-2,2-dimethyl-7in Hokkaido 2651 in South Africa 417 Ctenocephalides felis on, in Ryukyu Islands 718 benzofuranyl methylcarbamate) Lucilia sericata on, in East Germany against, Musca domestica 427, 1947. Carbamic acid, 1,2-ethanediylbis[hexyl-, 2502 2668 dimethyl ester, repellent for, Aedes aegypti 2741 mite control on, acaricides for 416 Notoedres cati on, in Japan 2010 in Musca domestica effects of atrazine on fate of 1947 Carbamic acid, 1,2-ethanediylbis[propyl-, Otodectes cynotis on, otitis externa caused sublethal effects of 1391 by 1210 dimethyl ester, repellent for, Aedes synergists for, Pimpinella anisum extracts Siphonaptera on, in Northern Ireland aegypti as 2668 Carbamic acid, 1,6-hexanediylbis[propyl-, 768 Carbohydrates Triatoma barberi on, in Mexico 3023 Trypanosoma cruzi in, in Brazil 2077 Vespa orientalis venom in, effects of 6 dimethyl ester, repellent for, Aedes aegypti 2741 in Anopheles stephensi hemolymph, effects of *Plasmodium berghei* on Carbamic acid, hexyl[2-(hexylamino)ethyl]-, methyl ester, repellent for, Aedes aegypti 1049 Walchia americana on, effects of 2024 in Tyrophagus putrescentiae, Cat carcasses, Chrysomya spp. in, in Queensland 588
Cat, ring-tailed (see Bassariscus astutus) Carbamic acid, [[2-[(methoxyacetyl)amino]-4-(phenylthio)phenyl]carbonimidoyl]bis-, dimethyl ester (see Febantel) incorporation of 1,3-butanediol into 1975 Carbon dioxide Cataglyphis bicolor Carbamic acid, methylanesthetic for, Culicoides 2441 Dicrocoelium dendriticum in, in Yugoslavia 442 in Yugoslavia 442 3-methylphenyl ester Anopheles arabiensis responses to 1905 with 4-methylphenyl methylcarbamate attractant for Culicidae 95, 2795 Culicoides variipennis Catalase, in Aedes aegypti, activity pattern of 161 against Hyalomma spp. 2605
Rhipicephalus bursa 2
in fowl, toxicity of 2256
4-methylphenyl ester 1660 Catallagia calisheri Glossina morsitans
G. pallidipes 573
Tabanidae 2486 sp. nov., description of 1550 in USA 1550 Culex quinquefasciatus responses to 1905 with 3-methylphenyl methylcarbamate on Peromyscus maniculatus, in Colorado against Haemaphysalis longicornis responses to 1550 Hyalomma spp. 2605
Rhipicephalus bursa 2605
in fowl, toxicity of 2256
Carbamic acid, [4-nitro-2,6-Catallagia dacenkoi 1986
in Anopheles nuneztovari breeding water, diurnal variation in 3069
Carbon, radioactive (\frac{14}{C}\), Glossina morsitans labelled with 574
Carbonic acid, 1-methylethyl 2-(1-methylpropyl)-4,6-dinitrophenyl ester (see Dinobuton)
Carbophenothion (S-[[(4-chlorophenyl)thio]methyl] O,O-diethyl phosphorodithioats) biotopes of 49 in USSR 499 499 on small mammals, in USSR 499 bis(trifluoromethyl)-1H-benzimidazol-1-Catallagia ioffi 499 biotopes of 49 in USSR 499 yl]-1-methylethyl ester 1-methylethyl ester
acaricidal activity of 3245
insecticidal activity of 3245
Carbamodithioic acid, diethyl-, sodium salt,
antifeedant for, Aedes aegypti, on
guinea-pig 1655
Carbaryl (1-naphthalenyl methylcarbamate) on small mammals, in USSR 499 cataphylla, Aedes Cataract, in mammals, caused by tick-borne spiroplasmas 3189 phosphorodithioate) against, Psoroptes ovis, on sheep 2555
Carboxide (see 1H-Azepine, 1,1'carbonylbis[hexahydro-) Catch basins Culex peus in, development of 114 C. pipiens in against gainst
Aedes aegypti 1909
Anopheles aconitus 1892
A. stephensi 1909
Argas persicus 2675
Blattella germanica 3004
Cimex lectularius 2675
Culex quinquefasciatus 190
Dermanyssus gallinae 2675
Haematobia irritans 1937
Hyalamas spp. 2605 Carboxypeptidase A, in Rhodnius prolixus mid-gut 761 Carboxypeptidase B, in Rhodnius prolixus mid-gut 761 in California 113, 1888 in Ontario 2382 C. quinquefasciatus in, development of 114
C restuans in, in Ontario 2382
mosquito control in
biological 2382
insect growth regulators for 113, 114
oils for 114
timing of 114 Carcasses, Calliphoridae in, in California Carcinops pumilio, in poultry houses 638 Carcinus maenas, hemolymph in, amino acids in 619 Hyalomma spp. 2605 on sheep 254 Cardiolipins, in grain mites 2020 Cardisoma carnifex Catecholamines Aedes polynesiensis in holes of, in French Polynesia 2785 Culicoides belkini in holes of, in Pacific Menacanthus stramineus, on fowl in Amblyomma americanum, role in in cockroach salivary glands, receptors for 741 salivation of 1981 Menopon gallinae, on fowl 1532 islands 1098
in French Polynesia 2785
Caribbean, dengue in 167
carnifex, Cardisoma
Carnivora, Yersinia pestis in, in New
Mexico 331 Monomorium pharaonis, in dwellings in invertebrates, book 1504 Catenaria anguillulae 3181 Musca domestica 2668 Ornithocheyletia hallae, on pigeon control of, fungicides for 2242 Ornithonyssus sylviarum, on fowl Romanomermis culicivorax 105 2922, 2928 carolina, Polistes pathogenicity of 104 ests of pet birds 669 Carpoglyphus lactis Catering establishments, Blattaria in, in East pests of pet birds 609
Rhipicephalus spp., on sheep 254
R. bursa 2605
in Apis mellifera, toxicity of 163
in bait traps for Diptera 2526
in Boophilus microplus, effects on oviposition of 2598 alarm pheromone in, identity of 3223 Germany 2318 cati, Ctenocephalides (see C. felis felis) cati, Demodex cati, Notoedres lipids in 2020 Carrion arthropod communities in 452 Calliphoridae in, in Philippines 2159 Cattle (Bos taurus)

Amblyomma americanum on
in Oklahoma 2553, 2907
resistance to 1193, 1194 Chrysomya spp. in, in Queensland 588 in fowl carrioni, Triatoma Carrollia, genitalia in 1555 effects on egg production of 2943 not affecting fertility 2945 not affecting growth rate 2943 not affecting hatchability 2945 toxicity of 2256, 2944 casei, Piophila A. maculatum on, in Oklahoma 2553 A. variegatum on Caseins attachment by 2 in Nigeria 2596 diet component for Dermatophagoides farinae 2569 Ophyra aenescens 908 amitraz in, residues of 1196 Anaplasma spp. in, in Brazil 2682 in Hydrophilus triangularis, toxicity of 1854 caspica, Xenopsylla gerbilli in Musca domestica absorption of 628 effects of cuticular lipids on absorption caspius, Aedes A. marginale in castaneum, Tribolium
Cat (Felis domestica)
arthropod parasites of
in Europe 2691
in Fiji 1262 symptoms of 2683 tick transmission of 2628 A. mesaeterum in, infectivity of 651 Anopheles campestris on, in West Malaysia 2806

Carbaryl contd.

| Cattle contd. | Cattle contd. | Cattle contd. |
|---|---|---|
| Anopheles contd. A. philippinensis on, in India 3101 | fly control on contd. | mosquito control on, thresholds for 23 |
| A. stephensi on, in Tamil Nadu 2775 | insecticide-impregnated tail tags for 591 | Musca autumnalis on eye damage caused by 1703 |
| A. subpictus on, in Tamil Nadu 2775 | permethrin for 1929, 2848, 2849 | eye lesions caused by 2513 |
| arsenicals in, poisoning by 3252, 3253 | repellents for 1688, 3157 | in California 386 |
| arthropod parasites of, in Fiji 1262 arthropod pests of, in Nigeria 2045, 2046 | timing of 1123, 2838 Haemaphysalis longicornis on | in Massachusetts 1822 in South Dakota 2499 |
| arthropod-transmitted diseases of 2132 | growth of 1426 | in West Germany 1394, 2166 |
| Babesia spp. in | in Assam 1436 | M. domestica on, in West Germany |
| in Australia 2210 in Brazil 2682 | in Japan 719 in New Zealand 3197 | 1394, 2166 Muscidae on, in Hokkaido 592 |
| symptoms of 2683 | in South Korea 2225 | Onchocerca spp. in, in Togo 2144 |
| B. bigemina in, in Nansei Islands 719 B. bovis in, in Nansei Islands 719 | resistance to 1427 H. spinigera on, development of 1997 | Ornithodoros coriaceus on, role in |
| B. divergens in | Haematobia spp. on, in West Germany | enzootic abortion of 1437 |
| immunization against 2625 | 2166 | Otobius megnini on, distribution pattern of 1992 |
| in Northern Ireland 2005 in UK 2210 | H. irritans on effects on growth rate of 1701 | Parafilaria bovicola in, fly transmission |
| blood-sucking flies on, feeding on ears of | effects on milk production of 2848 | 617 |
| l 1661 bluetongue virus in 123 | in Honshu 2840 in Kansas 1702 | pest control on 462, 1771, 2044 insecticides for 204 |
| in Colorado 2809 | in Karnataka 2017 | review 2296 |
| infectivity of 358 | in Louisiana 3168 | Phthiraptera on |
| Boophilus annulatus on, in Texas 2553 B. microplus on | in Texas 591, 630 in UK 2849 | losses caused by 1771 resistance to 488 |
| attachment of 1755 | rearing of 1407 | Psoroptes spp. on, losses caused by 934 |
| density-dependent mortality of 1201 | testosterone increasing attraction of 867 | P. ovis on |
| development of 2678 effects of 1761 | Haematopinus eurysternus on | exchange with sheep of 2658 in Argentina 284 |
| in Australia 1199 | in New South Wales 2702 | in Texas 414 |
| in Brazil 2677, 2679, 2680, 2681 in Nansei Islands 719 | role in skin mycosis of 758 Hyalomma anatolicum on | in West Germany 2012 |
| in Queensland 645 | distribution pattern of 2602 | Rhipicephalus appendiculatus on in Kenya 1985 |
| in Texas 2553 | feeding by 919 | in South Africa 2552 |
| in Uttar Pradesh 1203 resistance to 261, 1752, 2547, 2678, | H. impressum on, feeding by 647 H. marginatum on, in Portugal 653 | R. bursa on, in Spain 1487 |
| 3202 | Hydrotaea irritans on, in England 1689 | R. sanguineus on, feeding by 2601 |
| B. microplus trypsin inhibitor in, hypersensitivity to 2587 | Hypoderma spp. on bacteria associated with, effects of insect | Rift Valley fever virus in |
| Calliphoridae on, in Costa Rica 2532 | growth regulators on 865 | in Egypt 2362 |
| Ceratopogonidae on, in Uzbekistan 3028 | effects of 575 | in Sudan 3064 |
| chlorpyrifos in, residues of 2908 Chorioptes bovis on, in West Germany | in England 2838 in Spain 1491, 1492 | Sarcoptes scabiei on in Netherlands 275 |
| 2012 | in West Germany 861 | in West Germany 2012 |
| Chrysomya bezziana on, oviposition by 590 | losses caused by 2512 H. bovis on | Simuliidae on in France 1929 |
| Cochliomyia hominivorax on, in USA | antibodies to 2475 | in Uzbekistan 3028 |
| 968, 1399 | assessing infestations of 1125 | Simulium spp. on |
| Cowdria ruminantium in, in Zimbabwe 2004 | detecting of 1125 in Dagestan 1123 | in Togo 2144 in West Germany 3123 |
| Culicidae on | in Mongolia 2044 | S. erythrocephalum on, pathology of |
| effects on milk production of 981, | in Northern Ireland 577 in Poland 1936 | 1106 S maxiganum on in Colombia 1368 |
| in Queensland 1291 | in USSR 3140 | S. mexicanum on, in Colombia 1368 Solenopotes capillatus on, role in skin |
| Culicoides spp. on, in Nigeria 3106 | not affecting milk 863 | mycosis of 758 |
| C. brevitarsis on, feeding by 553 Damalinia bovis on | H. lineatum on antibodies to 2475 | Stomoxys spp. on, in West Germany 2166 |
| effects on blood of 3015 | in Mongolia 2044 | S. calcitrans on |
| in New South Wales 2702 not affecting growth rate 3015 | in Northern Ireland 577 in South Dakota 2479 | effects on milk production of 2848 in Honshu 2840 |
| role in skin mycosis of 758 | insecticides in, toxicity of 2702 | in UK 2849 |
| DDT in, residues of 2942 | Ixodes ricinus on, in Northern Ireland | in West Germany 1394 |
| Demodex spp. on in Mexico 2241 | 2625 Ixodidae on | S. nigra on, in Mauritius 626 Tabanidae on |
| in Zambia 2462 | in Georgia (USSR) 1187 | effects on milk production of 981, |
| Dermacentor spp. on, in USSR 2911 D. andersoni on, immunization against | in Punjab 268 in South Africa 655 | 1688, 2862 in Uzbekistan 3028 |
| 1180 | in Yugoslavia 2217 | Tabaninae on, landing sites of 2182 |
| D. marginatus on, in Spain 1486 | in Zimbabwe 654, 1182, 1994 | Tabanus spp. on, in Texas 630 |
| Dermatobia hominis on in Brazil 204 | resistance to 2546, 2549 Ixodoidea on | T. rufidens on, in Honshu 2487 Theileria spp. in, in South Korea 2225 |
| in Colombia 2685 | effects on blood of 2209 | T. annulata in |
| dichlorvos in, effects of 616 dieldrin in, residues of 2942 | in UK 2278 in Zambia 2461, 2462 | immunization against 2617, 3198 infectivity of 1183 |
| dioxathion in | in Zimbabwe 2015 | T. parva in, infectivity of 2221 |
| excretion in milk of 3206 | Leiurus quinquestriatus venom in, | Thelazia gulosa in, in Massachusetts |
| poisoning by 3253 Diptera on | stimulating epinephrine secretion by adrenal gland 683 | T. skrjabini in, in Massachusetts 1822 |
| in Tuva ASSR 2879 | Linognathus vituli on | tick-borne diseases of, in Zimbabwe 20 |
| in UK 2278, 2853 | effects on blood of 3015 in New South Wales 2702 | tick control on 1752, 2311 |
| in West Germany 3157 epizootic hemorrhagic disease of deer, | in New Zealand 757 | acaricide-impregnated bolus for 2553 acaricide-impregnated ear-tags for |
| virus in, in Colorado 2809 | not affecting growth rate 3015 | 2552 |
| fenthion in residues of 433 | Listeria monocytogenes in, in Georgia (USSR) 1187 | immunization for 1180 in Zimbabwe 1994 |
| safety during pregnancy of 434 | louse control on, insecticides for 757 | strategies for 645 |
| fly control on 870, 2278, 2853, 3123 | mite control on | toxaphene in |
| insect growth regulators for 2959 insecticide-impregnated ear tags for | acaricides for 1452, 2239 dips for 284 | excretion in milk of 3206 poisoning by 3252 |
| 591, 630, 3168 | mites on | Triatoma barberi on, in Mexico 3023 |
| insecticide-impregnated leg bands for 591 | in Haryana 2646 losses caused by 1771 | Trypanosoma spp. in, in Africa 2829 Wohlfahrtia spp. on, in USSR 3153 |

Cattle blood Cochliomvia hominivorax responses to 1709 diet component for Glossina morsitans 370 Tabanus nigrovittatus 1166 Cattle dips amitraz in, determination of 658 coumaphos in 1746 coumaphos in 1746

Cattle dung

Aphodiidae in, in Bangladesh 2192

Aphodius rufipes in, in Denmark 1421

bacteria in, effects of insects on 2989

biological control of 1966, 2310, 2315

Brachycera in, in France 1697

Coleoptera in, resource partitioning among guilds of 636

diet component for, Myospila

meditabunda 2164

Diptera in, in California 1724

Fannia spp. in, intraspecific competition Fannia spp. in, intraspecific competition in 1695 fly control in 2315, 2375, 2503 insect growth regulators for 116 fungi in, effects of insects on 2989 Geotrupes stercorarius in, effects of soil type on 1696 type on 1696
Haematobia irritans in, in California 210
Hydrotaea albipuncta in, in Japan 3162
H. dentipes in, intraspecific competition in 1695 H. meteorica in, in Japan 3162 Musca autumnalis in, in California 210, 386 M. vetustissima in, in Australia : Muscoidea in, in Australia 1681 parasitic insects in, in California 1724 Philonthus flavolimbatus in, in Texas 220 Polietes nigrolimbatus in, in Japan 3162 Porcellio laevis in, in Kerala 2663 predatory insects in, in California 1724 removal by dung beetles of 913 removal by earthworms of 913 Scarabaeidae in for fly control 1145, 1154 in Bangladesh 2192 in Spain 1968 Scathophaga stercoraria in, intraspecific competition in 1695 Cattle farms Musca domestica in, in California 2873
Phlebotomus spp. in, in Uzbekistan 2137
synanthropic Diptera in, in Bulgaria 877
Cattle hoof-prints, Psorophora columbiae in, in Louisiana 1620 Cattle housing, pest control in 2538 Cattle milk amitraz in, residues of 1196 coumaphos in, residues of 694 dioxathion in, residues of 3206 lindane in, residues of 275 toxaphene in, residues of 3206 Cattle pastures, Atta vollenweideri in, damage caused by 2202
Cattle serum, in mouse cell cultures, protecting against insect growth regulators 2033 Cattle serum, fetal culture-medium component for Coelomomyces punctatus 2802 Romanomermis culicivorax Cattle sheds Acdes spp. in, in USSR 2386
A. nigrinus in, in USSR 516
A. punctor in, in USSR 2111
Anopheles culicifacies in in Pakistan 3062
in Sri Lanka 2092
A stenhessi in in Pakistan 1 In Sri Lanka 2092
A. stephensi in, in Pakistan 129
Culicidae in, in Yugoslavia 446
insecticides in, persistence of 2515
Mansonia annulifera in, in Assam 2432 Musca domestica in in Italy 2515 in Sicily 2516 Tabanidae in, in Siberia 601 Cattle, zebu (see Zebu) caucasicus, Phlebotomus
Cavernicolini, taxonomy of 1276 Caves, Phlebotomus spp. in, in Uzbekistan Cavia cobaya (see Guinea-pig)

caviae. Trixacarus cavipalpus, Ixodes Cayman Islands Ceratopogonidae in 180, 1658 Culicidae in 2398 Céanes, Cyclops spp. in, in Mali 1224 Cediopsylla simplex in USA 1256, 2282 on Canis latrans, in Indiana 1256 on Sylvilagus floridanus, in Virginia 2282 on Urocyon cinereoargenteus, in Indiana 1256 on Vulpes vulpes, in Indiana 1256 celatus, Chrysops celestae. Fonsecia Cell lines Aedes spp. Ebola virus in, not replicating Lassa virus in, not replicating A. aegypti Brugia spp. in, development of exsheathed microfilariae of 345 densonucleosis virus in, maturation of 1061 A. albopictus Anaplasma marginale in, persistence of 2415 arboviruses in, replication of 2760 Bunyamwera virus in, replication of 2088 chikungunya virus in infectivity of 1847 persistent infection with 2416 dengue virus in effects of 1650 effects of persistent infection with 344 identifying of 1645 infectivity of 1847 Sindbis virus in, cytopathic effects of 2978 western equine encephalitis, virus in, persistent infection with 1902 A. dorsalis, arboviruses in, replication of 1578 pseudoscutellaris Brugia spp. in, development of exsheathed microfilariae of exsheathed microfilariae of 345 dengue virus in, identifying of 1645 A. scutellaris, Brugia spp. in, development of exsheathed microfilariae of 345 Anopheles stephensi, Brugia spp. in, development of exsheathed microfilariae of 345 arthropods, arboviruses in, replication of baby hamster kidney, Bunyamwera virus in, replication of 2088 Boophilus microplus, Babesia bovis in, development of 924 Culex molestus, insect growth regulators in, inhibition of protein and nucleic acid synthesis by 2421 C. pipiens
effects of drugs on 1043
effects of pesticides on 1043
Japanese encephalitis virus in, replication of 165 Dermacentor parumapertus, arboviruses in, replication of 2977

Glossina morsitans, Trypanosoma theileri in, development of 1388 insects arboviruses in, xenodiagnosis of 2980 review 2299 mouse, insect growth regulators in, toxicity of 2033 Periplaneta americana, nucleic acids in, synthesis of 1271 Triatoma infestans, Trypanosoma cruzi in, development of 2339 Cellulase, in Cheyletus eruditus gut 2041 Cellulitis, in man, associated with aural myiasis 885 Cemeteries Aedes aegypti in, in Louisiana 1346
mosquito control in 117, 1346
Centipede (see Chilopoda)
Central African Republic

Aedes spp. in, viruses in 347

A. africanus in, viruses in 2733

Central African Republic contd. Amblyomma variegatum in, viruses in 2603, 3080 Culicidae in 3047 Thaumastocera cervaria in 2841 yellow fever in 3080 centralis. Glossina morsitans Centropus phasianus, Haemaphysalis doenitzi on, in Queensland 1200 Centruroides, venoms of 2988 Centruroides elegans in Mexico 681 venom of 681, 3238 Centruroides limpidus tecomanus, venom of 3238 Centruroides noxius, venom of 3238 Cephalopina descriptions of 2474 descriptions of 2474
on antelope, in Africa 2474
Cephenemyia apicata, group of, on
Odocoileus hemionus, in Texas 2264
Cephenemyia auribarbis
in Irish Republic 1679
on Cervus elaphus, in Irish Republic 1679 Cephenemyia pratti, group of, on Odocoileus hemionus, in Texas 2264 Cephenemyia trompe Cepnenemyia trompe
control of, insecticides for 1124, 1676
in USSR 1124
on reindeer, in USSR 1124
Ceratophyllidae, in Afghanistan 2993
Ceratophyllus
on gerbil 1021 on small mammals, in USSR 2083 Ceratophyllus advenarius (see Megabothris advenarius) Ceratophyllus anisus, biology of 2082 Ceratophyllus beljaevi in USSR 2083 on Alticola macrotis, in USSR 2083 Ceratophyllus calcarifer (see Megabothris calcarifer) Ceratophyllus calderwoodi sp. nov., description of 1029 in Canada 1029 in Petrochelidon pyrrhonota nests, in New Brunswick 1029 Ceratophyllus columbae in Finland 3026 on man, dermatitis caused by 3026

Ceratophyllus gallinae
in Finland 3026 on man, dermatitis caused by 3026

Ceratophyllus hirundinis
in Finland 3026
on man, dermatitis caused by 3026 Ceratophyllus indages biotopes of 499 in USSR 499 on small mammals, in USSR 499 Ceratophyllus laeviceps (see Nosopsyllus laeviceps) Ceratophyllus niger feeding behaviour in 1288 in USA 1288 on fowl, in Montana 1288 Ceratophyllus penicilliger (see Amalaraeus penicilliger) Ceratophyllus sciurorum in Finland 3026 on man, dermatitis caused by 3026 Ceratophyllus scopulorum in USA 1028 in Petrochelidon pyrrhonota nests, in North Dakota 1028 Ceratophyllus taiganus (see Megabothris taiganus) Ceratophyllus tesquorum (see Citellophilus tesquorum) Ceratopogon, in Cayman Islands 1658 Ceratopogonidae control of, biological 2354 control of, biological 2354
Finnish entomologists working on 2727
in Cayman Islands 180, 1658
in Comoro Islands 2690
in Maine 1552
in Malagasy Republic 2408
in Saudi Arabia 2990
in Uzbekistan 3028
in tree holes, in Spain 1484, 1490
on cattle, in UK 2853
on man hypersensitivity to 969 on man, hypersensitivity to 969

| Constanceavides contd | Chasharidas sauti | Charletielle manatition |
|---|---|---|
| Ceratopogonidae contd. | Chaoboridae contd. | Cheyletiella parasitivorax |
| traps for 180, 552 | filter-feeding in 2300 | control of, acaricides for 418 |
| Ceratopogoninae | Finnish entomologists working on 2727 | in Argentina 2657 |
| in USSR 554 | in rivers, effects of temephos on 1928 | in Mexico 287 |
| larvae of 554 | taxonomy of, characters for 352 | in Netherlands 418 |
| Cercotmetus, preying on, Culicidae 1567 | Chaoborinae, in Saudi Arabia 2990 | in South Africa 417 |
| Cercyon | Chaoborus | on dog, in Argentina 2657 |
| flight activity in 2892 | control of | on man 417 |
| in dung | growth regulators for 211 | on rabbit |
| communities of 3183 | non-target effects of 211 | in Netherlands 418 |
| in Finland 2892 | labrum in 520 | in South Africa 417 |
| cervaria, Thaumastocera | Chaoborus anomalus | |
| cervi, Lipoptena | in Ghana 1928 | on Romerolagus diazi, in Mexico 287 |
| cervivora, Symphoromyia | in rivers, effects of temephos on 1928 | Cheyletiella yasguri control of, acaricides for 1780 |
| Cervus elaphus | Chaoborus astictopus | in Denmark 1780 |
| Cephenemyia auribarbis on, in Irish | control of | in South Africa 417 |
| Republic 1679 | biological 101, 2483, 2484 | |
| Hydrotaea irritans on, defence | | on dog |
| | growth regulators for 2481, 2482 non-target effects of 2482 | effects of 1780 |
| mechanisms against 3174 | | in South Africa 417 |
| Hypoderma diana on, in Irish Republic 1679 | in USA 101, 2481, 2482, 2483, 2484, 2485 | transfer to man of 2345 on man 417 |
| | | |
| Rhabdopedilon longicornis on, in Poland | in farm ponds, in California 101, 2481 | effects of 1780 |
| 1529 Corres unicolar Anaistronaulla nonalansia | in lakes, in California 2484 | prurigo caused by 2345 |
| Cervus unicolor, Ancistropsylla nepalensis | preyed on by | Cheyletus |
| on, in Tamil Nadu 3025 | Acanthocyclops vernalis, in California | in house dust |
| Cesspools Culicides in in Diibouti 1075 | 2485 Masayalana lavakarti in California | in Ohio 1794 |
| Culicidae in, in Djibouti 1075 | Mesocyclops leuckarti, in California | in Portugal 1795 |
| mosquito control in 1075 | 2485 | interactions with other mites of 2563 |
| Cestoda 1740 | preying on | on man, hypersensitivity to 2920 |
| Aprostatandrya macrocephala 2011 | Acanthocyclops vernalis, in California | Cheyletus eruditus, digestive enzymes in |
| Choanotaenia infundibulum 1742 | 2485 | 2041 |
| Hymenolepis diminuta 637 | Tropocyclops prasinus, in California | Cheyletus malaccensis |
| Paranoplocephala variabilis 2011 | 2485 | in Iran 1205 |
| Spirometra mansonoides 1817 | Chatham Islands (indexed under New | in Peru 273 |
| Cestodes, in, Scarabaeidae, in Georgia | Zealand) | in USA 1794 |
| (USA) 1740 | Chatia hertigi | in house dust |
| CGA-19255 (see 1,3,5-Triazine-2,4-diamine, | hosts of 2638 | in Iran 1205 |
| 6-azido-N-cyclopropyl-N'-ethyl-) | in China 2638 | in Ohio 1794 |
| CGA-34296 (see Propanenitrile, 2-[[4-azido- | Cheese, diet component for, Cochliomyia | in Peru 273 |
| 6-(cyclopropylamino)-1,3,5-triazin-2- | hominivorax 899 | Cheyletus trouessarti |
| yl]amino]-) | Cheiracanthium, on man, effects of bite by | in Iran 1205 |
| CGA-50439 (see Benzenamine, 2,4-dimethyl- | 996 | in Peru 273 |
| N-(3-methyl-2(3 H)-thiazolylidene)-) | Cheiracanthium japonicum | in USA 276 |
| chabaudi, Phlebotomus | in Japan 721 | in Falco sparverius nests, in New York |
| Chactidae, in Venezuela 687 | in dwellings, in Nansei Islands 721 | 276 |
| Chactopsis, in Venezuela 687 | Cheiracanthium lawrencei | in house dust |
| chadlii, Phlebotomus | in South Africa 3240 | in Iran 1205 |
| Chaetopsylla floridensis | in dwellings, in South Africa 3240 | in Peru 273 |
| in USA 1028 | on man, necrosis caused by 3240 | preying on, Lardoglyphus falconidus, in |
| on Martes americana, in Colorado 1028 | Cheiracanthium punctorium | New York 276 |
| Chaetopsylla lotoris | biology of 2250 | Chicken (see Fowl) |
| in USA 1256 | in West Germany 2250 | chihuahuae, Geomydoecus |
| on Procyon lotor, in Indiana 1256 | on man, effects of bite by 2250 | Chikungunya virus |
| on Urocyon cinereoargenteus, in Indiana | Cheladonta, in Kyushu 2925 | in |
| 1256 | Cheletomorpha lepidopterorum | Aedes spp., in Senegal 2780 |
| Chagas' disease (see also Trypanosoma | in Peru 273 | A. aegypti, transmission of 1323 |
| cruzi) | in house dust, in Peru 273 | A. albopictus |
| control of | Cheletonella vespertilionis | infectivity of 1847 |
| aided by malaria vector control 1278 | in Spain 1493 | persistent infection with 2416 |
| housing improvements for 75 | in Tadarida teniotis dung, in Spain 1493 | man, in Central African Republic |
| vector control for 70 | Chemosterilants | 3047 |
| in Brazil 2077 | role in control of Acari of 2548 | Chile |
| in Mexico 1278 | substances tested as: | Culicidae in 350 |
| Chagasia bonneae | benzyl-1,3-benzodioxoles 952 | Triatoma infestans in, in dwellings 207 |
| gonotrophic cycle in 155 in Brazil 155 | benzylphenols 952 | Chilopoda Aedes sierrensis eggs not eaten by 1885 |
| | cheopis, Xenopsylla | in Saudi Arabia 2990 |
| on man, in Brazil 155 Chalcidoidea | chersonesi, Haemolaelaps Cheyletidae | Chim virus |
| | | |
| book 2994 parasitising Musca domestica in Tonga | in house dust in Brazil 1453 | Argasidae, in Uzbekistan 1747 |
| parasitising, Musca domestica, in Tonga 2375 | in Colombia 3225 | Ixodidae, in Uzbekistan 1747 |
| Chalcophaps indica, Amblyomma cyprium | Cheyletiella | China |
| on, in New Hebrides 2207 | control of, acaricides for 1455 | Aedes albopictus in 343 |
| Chalcosia formosana | on cat, effects of 417 | A. craggi in 1083 |
| in Japan 710 | on dog | A. galloisi in 2373 |
| on man, effects of 710 | effects of 417 | Amphipsylla spp. in, on small mammals |
| chaliensis, Amphipsylla tuta | in Haryana 1455 | 1036, 1037, 1545 |
| Chalybion californicum | on man, effects of 417 | Anopheles ramsayi in 1082 |
| in USA 2025 | Cheyletiella blakei | Culex spp. in 2429 |
| prey of 2025 | illustrations of 2651 | Culicoides spp. in 2445 |
| preying on, Latrodectus mactans, in | in Japan 2651 | Echinonyssus distinctitarsus in 2235 |
| Oklahoma 2025 | in South Africa 417 | entomology in 983, 984, 985, 986 |
| Chamomile (Anthemis nobilis and | on cat | Frontopsylla tomentosa in, on small |
| Matricaria chamomilla) | in Hokkaido 2651 | mammals 1034 |
| insecticidal activity of mucilaginous seeds | in South Africa 417 | Gahrliepia hegu in, on small mammals |
| of 2120 | transfer to man of 2345 | 1212 |
| repellent activity of extracts of 2262 | on man 417 | Gamasoidea in, on Typhlomys 2639 |
| Chandlerella quiscali, in, Culicoides | dermatitis caused by 2651 | Haemolaelaps petauristae in, on Petaurist |
| crepuscularis 475 | prurigo caused by 2345 | 2916 |
| chani, Chrysomya | Cheyletiella mexicana | Herpetacarus spp. in, on rodents 2913 |
| Chaoboridae | sp. nov., description of 287 | Hirstionyssus trogopteri in, on Petaurista |
| Bacillus thuringiensis in, not pathogenic | in Mexico 287 | 2916 |
| 551 | on Romerolagus diazi, in Mexico 287 | Hoplopleura spp. in 2335 |

China contd. Laelaps pachysternus in, on Rhizomys 2655 Leptotrombidium alpinum in, on Apodemus 1213 L. guangdongense in, on Rattus 1215 malaria control in 2414 Minyctenopsyllus triangularus in on Citellus 328 on Myospalax 328 Palaeopsylla spp. in 1033 Paradoxopsyllus spp. in, on Pitymys Phlebotominae in 1103 Rhyzolaelaps lodianensis in, on Rhizomys 2640 2640
R. rhizomydis in, on Rhizomys 2655
Siphonaptera in 1035, 2343
Steatonyssus spp. in 2656
S. megaporus in, on Taphozous 2917
Tabanidae in 2514
Tabanus spp. in 1148
Trombiculidae in 1211, 2638 Tylolaelaps rhizomydis in, on Rhizomys Xenopsylla tarimensis in, on Dipus 2344 chinai, Panstrongylus chinensis, Hister (Pachylister) chinensis, Pachylister (see Hister chinensis) chinensis, Phlebotomus chinensis, Polyplax Chinomethionat (see Quinomethionate)
Chipmunk, eastern (see Tamias striatus) Chironomidae Bacillus thuringiensis in, pathogenicity of control of 2877 growth regulators for 1859 insecticides for, testing of 2870 filter-feeding in 2300 Finnish entomologists working on 2727 in Maine 1552 in North America 78 in flood-control channels, in California 1859 in rivers, in Spain 1499 in wells, in Mali 1224 preyed on by Hydrophilidae, in California 100 Ochthera spp. 1410 taxonomy of, characters for 352 Chironomus emergence in 889 in recreational lakes, in California 889 Romanomermis culicivorax in, pathogenicity of 1370 Chironomus attenuatus, Romanomermis culicivorax in, pathogenicity of 1370 Chironomus decorus in USA 2491 in flood-control channels, diel drift of 2491 complex of entomopoxvirus in in California 1136 pathogenicity of 11 1136 Chironomus dorsalis group of in Japan 891 taxonomy of 891 Chironomus maturus (see C. attenuatus) Chironomus plumosus in Switzerland 876 larval development in, effects of photoperiod on 876

Chironomus thummi, emergence in, rhythm of 1401

Chironomus yoshimatsui control of, insecticides for, testing of in Japan 891 Chitin in Aedes triseriatus, rose Bengal interfering with synthesis of 1573 in Culex pipiens, diflubenzuron inhibition of synthesis of 812

in Culex quinquefasciatus, rose Bengal interfering with synthesis of 1573 in Musca domestica

measuring of biosynthesis of 383

in Triatoma infestans, synthesis of 491

effects of growth regulators on biosynthesis of 383

Chitin synthase (see Acetylglucosaminyltransferase, chitin-uridine diphosphate) Chitinase, in Cheyletus eruditus gut 2041 Chloramine (see Chlormethine) Chlordane (1,2,4,5,6,7,8,8-octachloro-2.3.3a.4.7.7a-hexahydro-4.7-methano-1*H*indene) enantiomers of, absolute stereochemistry of 1228 in Apis mellifera, toxicity of 163
Chlordecone (1,1a,3,3a,4,5,5,5a,5b,6-decachlorooctahydro-1,3,4-metheno-2Hcyclobuta[cd]pentalen-2-one)
against, Monomorium pharaonis 465 in Musca domestica, ATPase inhibition by 2885 Chlordene (see 4,7-Methano-1H-indene, 4.5.6.7.8.8-hexachloro-3a,4.7.7atetrahydro-) Chlordene epoxide (see 2,5-Methano-2Hindeno[1,2-b]oxirene, 2,3,4,5,7,7-hexachloro-la,10,5,5a,6,6a-hexahydro-) **Chlordimeform** (N'-(4-chloro-2methylphenyl)-N,Ndimethylmethanimidamide) in Boophilus microplus, effects on oviposition of 2598 resistance to, in, Boophilus microplus Chlorfenethol (4-chloro-\alpha-(4-chlorophenyl)a-methylbenzenemethanol)
in Musca domestica, not affecting labellar
receptors 1129 labellar receptors of 1129 Chlorfenvinphos (2-chloro-1-(2,4dichlorophenyl)ethenyl diethyl phosphate) against Glossina morsitans 373 Lucilia cuprina, on sheep 607, 3165 Musca domestica, in cattle sheds 2515 Musca domestica, in cattle sneed 2513
Rhipicephalus sanguineus 2614
in Blatta orientalis, effects of temperature
on susceptibility to 1806
in cattle sheds, persistence of 2515 in Musca domestica, effects of temperature on susceptibility to 1806 in Sitophilus granarius, effects of temperature on susceptibility to 1806 resistance to, in Ixodidae in South Africa 2016
in southern Africa 2551
with cypermethrin, against, Lucilia
cuprina, on sheep 607 with dioxathion, against, Rhipicephalus appendiculatus, on cattle 2552 Chlorhexol (see HCH) Chloride in cattle milk, not affected by Hypoderma bovis 863 in Periplaneta americana nervous system, effects of toxaphene on movement of in tick salivary glands, localisation of 1983 Chlormethine (2-chloro-N-(2-chloroethyl)-Nmethylethanamine) against, Ornithonyssus bacoti 286 Chloroform (see Methane, trichloro-)
Chloromethiuron (N'-(4-chloro-2methylphenyl)-N,N-dimethylthiourea) against, Argas walkerae, on fowl 2904 in Boophilus microplus, toxicology of

synergist for, DDT 1562 with DDT, in Musca domestica, effects on with piperonyl butoxide, antagonistic 2599 Chlorophos (see Trichlorphon) Chloropidae collecting of, review 231 hindering rearing of Triatominae 1019 chloropyga, Chrysomya

Chloroquine (N⁴-(7-chloro-4-quinolinyl)N¹, N¹-diethyl-1,4-pentanediamine)
resistance to, in, Plasmodium falciparum,
in Brazil 1057

Chlorphoxim (7-(2-chlorophenyl)-4-ethoxy-3,5-dioxa-6-aza-4-phosphaoct-6-ene-8nitrile 4-sulfide) against, Anopheles aconitus 532

Chlorpyrifos (O,O-diethyl O-(3,5,6-trichloro-2-pyridinyl) phosphorothioate) against Aedes spp., in conservation areas 1873 A. aegypti 801 A. taeniorhynchus, in temporary pools 1895 Anopheles spp. 131 A. franciscanus 116 Blattaria 316 Blattella germanica, in dwellings 1003 Culex pipiens 2743 C. quinquefasciatus 116, 131, 801, in drainage channels 3060 C. tarsalis 116 Culicidae 1075 in cemeteries 117 in conservation areas 1872 Culiseta inornata 116 Linognathus vituli. on cattle Panstrongylus megistus 2336 Psorophora columbiae 2118 Psoroptes equi, on Asian buffalo 270 P. ovis, on sheep 2555 Rhodnius prolixus 70 Sarcoptes scabiei

on Asian buffalo 270 on camel 270 Triatoma infestans 2337 formulations of

PVC pellets 116 slow-release 70, 2336, 2337 in cattle

residues of 2908 toxicity of 2702 in cattle ear tags 2908 in pellets, distribution devices for 2118 in pig, residues of 3017

in roadside drains, persistence of 2743 in Toxorhynchites rutilus, toxicity of 801 resistance to, in, Boophilus microplus, in Brazil 2616 with dichlorvos, against, Blattella

with dichlorvos, against, Blattella germanica, in dwellings 1265 with toxaphene, against, Rhipicephalus sanguineus 2614
Chlorpyrifos-methyl (O,O-dimethyl O-(3,5,6-

trichloro-2-pyridinyl) phosphorothioate) against, *Simulium* spp. 1114 in *Hydropsyche pellucidula*, toxicity of 1114

in Rhyacophila dorsalis, toxicity of 1114 Choanotaenia infundibulum, in, Alphitobius diaperinus, in Sudan 1742

Cholesta-5,7-dien-3-ol, (3 β)-, in *Periplaneta* americana, not affecting nervous system

Cholesta-4,7-dien-6-one, 3,14-dihydroxy-, (3β) -, in *Calliphora stygia*, conversion to ecdysterone of 1810 Cholest-5-en-3-ol

 (3β) -

in grain mites 2020 in *Musca domestica*, effects of diet on 381 in Periplaneta americana, effects of

dimethoate on 320 in Periplaneta americana hemolymph

in Xenopsylla astia diet, required for

vitellogenesis 1281

vitellogenesis 1281
in Xenopsylla cheopis diet, required for vitellogenesis 1281
fluoroacetate, (3β)-, against, Solenopsis invicta 1969
Cholest-7-en-6-one, 2,3,14,20,22,25,26-heptahydroxy-, (2β,3β,5β,22R)-, in Calliphora vicina, metabolite of α-ecdysone 3151
Cholest-7-en-6-one 2 3 14 20 22 25-

Cholest-7-en-6-one, 2,3,14,20,22,25-hexahydroxy-, (2β,3β,5β,22R)- (β-ecdysone; ecdysterone; 20-hydroxy-αecdysone)

> in Aedes aegypti delaying onset of male sexual receptivity 3091 not inducing vitellogenesis 1629 role in retention of blood-meals of

in Anopheles freeborni, delaying onset of male sexual receptivity

| Cholest-7-en-6-one, 2,3,14,20,22,25- | Chortoglyphus arcuatus | Chrysomya megacephala contd. |
|---|---|---|
| hexahydroxy- contd. | in Peru 273 | development in, metabolic rate per unit |
| $(2\beta,3\beta,5\beta,22R)$ - contd. | in house dust, in Peru 273 | weight during 585 |
| in Calliphora stygia, precursors of | Chortoglyphus longior | in Papua New Guinea 589 |
| 627, 1810 | sp. nov., description of 2636 | in South Africa 614 |
| in Calliphora vicina | in Japan 2636 | in sea-gull carcasses, in South Africa 614 |
| inducing acid phosphatase in fat-body | in house dust, in Honshu 2636 | larval development in 579 |
| 1712 | Chromatin, in Triatoma infestans 1844 | mutations in, effects of eclipses on 879 |
| induction of acid phosphatase by | Chromium, in Aedes aegypti, inhibition of | oocytes in, effects of colchicine on 2861 |
| inhibiting protein synthesis in fat- | larval negative phototaxis by 346 | reproduction in 589 |
| body 1159 | Chromium, radioactive (51Cr), for labelling | spiracles in, morphogenesis of 1415 sterilisation of, chemosterilants for 1397 |
| in Culex nigripalpus, not inducing | insect blood-meals 2524 Chromosomes | taxonomy of, characters distinguishing C. |
| vitellogenesis 1629 | Aedes aegypti 179, 2410 | chloropyga and 614 |
| in Diploptera punctata, role in | | thiourea in, effects on ovariole DNA of |
| regulating JH synthesis of 2323 | A. micropterus 2117 A. togoi 130 | 2527 |
| in Musca domestica diet, effects on | Amblyomma lepidum 2213 | water content in, developmental changes |
| development of 2498 | A. variegatum 2213 | in 1133 |
| in Nasonia vitripennis, effects on larval | Anopheles albimanus 816, 1317 | Chrysomya putoria, control of, insecticides |
| diapause of 1743 | A. arabiensis 2101, 2358 | for, testing oral toxicity of 384 |
| in Periplaneta americana, effects on nervous system of 2054 | A. atroparvus 818 | Chrysomya rufifacies biology of 2506 |
| in <i>Phormia regina</i> , effects on ovarian | A. culicifacies 1042, 1616, 1651 | cannibalism in 1715 |
| development of 216 | A. gambiae 2101, 2358 | control of 2506 |
| in Rhodnius prolixus hemolymph, | A. labranchiae 818 | development in, metabolic rate per unit |
| developmental changes in 1275 | A. messeae 775, 1078 | weight during 585 |
| in Sarcophaga bullata, effects on | A. ramsayi 1924 | diurnal activity in 2158 |
| ovarian development of 216 | A. stephensi 514, 1924 | illustrations of 2506 |
| in Sarcophagidae, terminating pupal | Blattella germanica 1526, 1825, 2328 | in Australia 588, 1138, 2506 |
| diapause 1693 | Culex pipiens 1355 | in Costa Rica 2532 |
| Cholest-7-en-6-one, 2,3,14,20,22,26- | C. tarsalis 109 Culiseta longiareolata 2094 | in India 2158 |
| hexahydroxy-, $(2\beta, 3\beta, 5\beta, 22R)$ -, in Calliphora vicina, metabolite of α - | Glyptotendipes barbipes 598 | in Papua New Guinea 589 in carrion, in Queensland 588 |
| ecdysone 3151 | Mansonia annulifera 2432 | in human cadavers, in Costa Rica 2532 |
| Cholest-7-en-6-one, 2,3,14,22,25,26- | M. indiana 2432 | larval development in 579 |
| hexahydroxy-, $(2\beta, 3\beta, 5\beta, 22R)$ -, in | M. uniformis 2432 | on sheep |
| Calliphora vicina, metabolite of α- | Musca domestica 3148 | damage caused by 2506 |
| ecdysone 3151 | Parasarcophaga misera 393, 623 | in Australia 1138 |
| Cholest-7-en-6-one, 2,3,14,22,25- | P. ruficornis 393 | reproduction in 589 |
| pentahydroxy- | Passeromyia heterochaeta 1156 | spiracles in, morphogenesis of 1415 |
| $(2\beta,3\beta,5\beta,22R)$ - (α -ecdysone) | Sarcophaga argyrostoma 1132 | water content in, developmental changes |
| in Calliphora, role in larval-pupal | Simulium morsitans 1112 S. ornatipes 563, 564 | in 1133 Chrysomya saffranea |
| transformation of 2160 | Triatoma infestans 1017 | in Australia 588 |
| in Calliphora vicina, metabolism of | preparing of 1899 | in Papua New Guinea 589 |
| 3151 | Chrysanthemic acid (2,2-dimethyl-3-(2- | in carrion, in Queensland 588 |
| in Calliphora vicina larvae, effects of | methyl-1-propenyl)cyclopropanecarboxy- | reproduction in 589 |
| external factors on 1692 | lic acid) | Chrysomya samarensis |
| in Ornithodoros moubata nymphs | 1-methylheptyl ester, (1 <i>R-trans</i>)-, | sp. nov., description of 2159 |
| 1984 | photoisomerisation of 953 | in Philippines 2159 |
| in Rhodnius prolixus | [5-(2-propynyl)-2-furanyl]methyl ester, | in carrion, in Philippines 2159 |
| effects on ovarian development of 962 | (1R-cis,trans)- | Chrysomya varipes in Australia 588, 1138 |
| inhibiting ovarian development and | against Aedes spp. 1225 | in Papua New Guinea 589 |
| oviposition 760 | Blattella germanica 1225 | in carrion, in Queensland 588 |
| inhibiting vitellogenesis and | Cimex lectularius 1225 | larval development in 579 |
| oviposition 490 | Musca domestica 1225 | on sheep, in Australia 1138 |
| in Rhodnius prolixus hemolymph, | Chrysanthemum leucanthemum, Aedes spp. | reproduction in 589 |
| developmental changes in 1275 | on, nectar feeding by 1574 | Chrysops |
| Cholest-7-en-6-one, 3,5,14-trihydroxy-, | chrysolineatus, Aedes | colour preferences in 3119 |
| $(3\beta,5\alpha)$ -, in Calliphora stygia, conversion | Chrysomya | control of, insecticides for 2862 in New Brunswick 3119 |
| to ecdysterone of 1810 Cholesterol (see Cholest-5-en-3-ol, (3β) -) | in Singapore 1732 on livestock, in Nigeria 2046 | in Siberia 601 |
| Cholesterol, 7-dehydro- (see Cholesta-5,7- | on sheep, in Romania 2529 | in USSR 1135 |
| dien-3-ol, (3β) -) | Chrysomya bezziana | on horse, in Spain 1495 |
| Choline (see Ethanaminium, 2-hydroxy- | control of | on livestock, in USA 2862 |
| N,N,N-trimethyl-) | insecticides for 884 | on man, in USA 2862 |
| Choline kinase (see Kinase | surgical closure of nostrils for 884 | Pasteurella tularensis in, transmission of |
| (phosphorylating), choline) | in India 884 | 1150 |
| Choline, \(\beta\)-methyl- (see 1-Propanaminium, | in Papua New Guinea 589, 590 | Chrysops atlanticus |
| 2-hydroxy-N,N,N-trimethyl-) Choloepus hoffmani, Leishmania herreri in, | in Zimbabwe 654 on cattle | in USA 387, 2862 in recreation areas, in USA 2862 |
| in Costa Rica 1099 | in Papua New Guinea 590 | nectar-feeding in 387 |
| Chorioptes bovis | in Zimbabwe 654 | ovarian development in 380 |
| biology of 1771 | on man, in India 884 | oviposition in 380 |
| control of, acaricides for 2012 | oviposition in 590 | Chrysops beameri, in USA 395 |
| descriptions of 1771 | reproduction in 589 | Chrysops celatus, in USA 395 |
| in New Zealand 599, 2001 | traps for 589 | Chrysops fuliginosus |
| in Spain 1495 | Chrysomya chani | in USA 387 |
| in Switzerland 1776 | sp. nov., description of 1732 | nectar-feeding in 387 |
| in West Germany 2012 | in Singapore 1732 | Chrysops obsoletus |
| on cattle in West Germany 2012 | in forests, in Singapore 1732 Chrysomya chloropyga | in USA 1897 Keystone virus in, in Connecticut 1897 |
| losses caused by 1771 | in South Africa 379 | Chrysops tarimi |
| on goat, in New Zealand 2001 | parasitised by, Tachinaephagus | sp. nov., description of 2514 |
| on horse, in Spain 1495 | zealandicus, in South Africa 379 | in China 2514 |
| on sheep | taxonomy of, characters distinguishing C. | chrysorrhoea, Euproctis |
| in New Zealand 599 | megacephala and 614 | Chrysron (see Resmethrin) |
| in Switzerland 1776 | Chrysomya defixa, taxonomy of, characters | chrysurus, Tabanus |
| Chorioptes equi (see C. bovis) | distinguishing C. chani and 1732 | churchillensis, Aedes |
| Chortoglyphidae in house dust in Brazil | Chrysomya megacephala | Ciliate Tetrahymena 2357 |
| Chortoglyphidae, in house dust, in Brazil 1453 | biology of 614 descriptions of 614 | Ciliata, Tetrahymena 2357 ciliata, Psorophora |
| 1100 | accomptions of 014 | vinica, i ovi opnora |

Mesocyclops leuckarti 773

Cnidosporidia 560, 1489, 1606 Cimetidine (N-cvano-N'-methyl-N"-[2-[[(5-Cladocera methyl-1H-imidazol-4in ponds Amblyospora 178, 1333, 2749 metnyl-171-imidaz01-4-yl)methyl]thio]ethyl]guanidine) in rat, preventing stimulation of gastric secretion by *Tityus serrulatus* venom A. opacita 2354 effects of diflubenzuron on 211 effects of insect growth regulators on Nosema algerae 178, 612, 1334, 1910, 2770, 3040 290 in rivers, effects of temephos on 1928 N. whitei 612 preyed on by, Gambusia affinis 1862 Octosporea muscaedomesticae 612 Cimex hemipterus Cladophora glomerata fatty acids in 522 insecticidal activity of extracts of 522 Thelohania fibrata 1105 CNP (see Benzene, 2,4,6-trichloro-1-(4hepatitis B virus in, transmission of 980 in Iraq 2711 in Zaïre 989 nitrophenoxy)-)
coacta, Megaselia on Pipistrellus kuhlii, in Iraq 2711 Wuchereria bancrofti in, transmission of 474 Cladotanytarsus lewisi Cochliomyia, control of, review 2296 Cochliomyia hominivorax in Sudan 886 on man activity pattern in 1 attractants for 1708 Cimex lectularius antibodies to 886 control of, insecticides for 1225, 1242, 2042, 2675 hypersensitivity to 886

Clarias, dieldrin in, metabolism of 373 wound materials as fecundity in, not affected by corticosterone clarkii, Procambarus biology of 2686 1542 claviger, Anopheles breeding sites of, detecting of 1315 hepatitis B surface antigen in, transmission of 2710 Clematis, repellent activity of extracts of control of nntrol of non-target effects of 968 sterile-insect release for 462, 900, 1399, 2267, 2523, 2687 surgical removal for 2851 246 transmission of 2710
hepatitis B virus in, transmission of 980
in Iraq 2711
in Italy 969
in USSR 2042, 2675
in dwellings, in Iraq 2711
intracellular symbionts in 2301
mid-gut in 1013 Clendrol (see Lindane) clethrionomydis, Laelaps surgical removal for 2851 timing of 2523 use of movement data in 1246 dispersal of 1245 distribution of 2686 enzymes in 2275, 3146 in Belize 2851 in Brazil 2505, 2687 in Mexico 900, 1315, 2523 in Netherlands Antilles 629, 2687 in USA 462, 968, 1245, 1246, 1399, 1710, 2857, 3146 mating in 1398 on cattle, in USA 968, 1399 Clethrionomys gapperi
Dermacentor variabilis on, in Nova Scotia 928, 2559 habitats of 928 Clethrionomys glareolus arthropod parasites of, in Byelorussia on man affecting eyes 1241 in Italy 969 on *Pipistrellus kuhlii*, in Iraq 2711 Haemogamasus nidi on, in Czechoslovakia Ixodes persulcatus on, effects of 2609 Myocoptidae on, in Spain 1478 nephropathia epidemica, causal agent in, in Finland 2973 rearing of, techniques for 1668 symbionts in 475 Cimex pilosellus in USA 2304 on bat, in New England 2304 Cimex pipistrelli Siphonaptera on, host transfer by 1032 on cattle, in USA 968, 1399 tick-borne encephalitis, virus in, titres of on man in Iraq 2711 on Pipistrellus kuhlii, in Iraq 2711 in Brazil 2505 Clethrionomys rufocanus in Belize 2851 Chatia hertigi on, in China 2638 Gamasidae on, in Hokkaido 2009 Cimex rotundatus (see C. hemipterus) on sheep, in Mexico oviposition in 2523 stimuli for 1709 control of, insecticides for 451 Leptotrombidium subintermedium on, in ticks creating suitable conditions for 2908 in Comoro Islands 2690 China 2638 on man, bites by, review 1011 Gamasidae on, in Hokkaido 2009 Gamasoidea on, in USSR 667 Cloeon, insect growth regulators in, residues of 800 Clethrionomys rutilus cinerea, Ephydra cinerea, Nauphoeta cinerea, Nepa cinereus, Aedes population dynamics of 900, 2523 predators of competition among 2857 in Texas 2857 cingulatus, Dysdercus Ciodrin (see Crotoxyphos) rearing of diets for 899 Clogmia albipunctatus (see Telmatoscopus albipunctatus) quality control in 2275, 3146 reproduction in 589 Circadian rhythms Clostridium, in, Argas persicus, in Pakistan Chironomus thummi, emergence 1401 1996 sterilisation of, chemosterilants for 1945 taxonomy of 2686 traps for 629 Culex quinquefasciatus, flight activity clydei, Sergentomyia Culex quinquefasciatus, flight activity 1045, 1648
C. tarsalis, blood-feeding 1576
Culiseta incidens, locomotion 543
Drosophila pseudoobscura, eclosion
Glossina austeni, flight activity 1673
G. palpalis, flight activity 1673
Leucophaea maderae, activity 485
Descriptores americana glycopen con Cnaphalocrocis medinalis, migration in 986 Cnephia in Maritime Provinces 1111 in Queensland 845 Cochliomyia macellaria activity pattern in 1710 control of, insecticides for 3245 in Costa Rica 2532 1045 1673 labro-cibarial sensilla and armature in 187 Cnephia dacotensis in USA 188 in Netherlands Antilles 629 in USA 1710 Periplaneta americana, glycogen content relocation behaviour in 188 in human cadavers, in Costa Rica 2532 on cattle, in Costa Rica 2532 traps for 629 Cnephia mutata
biology of 24
breeding places of 1113 Sarcophaga argyrostoma, eclosion 620 in continuous light 1045 traps for 629
Cochliomyia minima
in Puerto Rico 2889
on dog, in Puerto Rico 2889
Cockroach (see Blattaria)
Cocoa (see Cacao)
Coelomomyces circumluteolus, Aedes
circumscriptus, Culicoides
Cismethrin ([5-(phenylmethyl)-3furanyl]methyl (1R-cis)-2,2-dimethyl-3(2-methyl-1-propenyl)cyclopropanecarbocolour preferences in 3119 in Canada 1113, 3119 in USA 363 in USSR 24 in streams, distribution pattern of 1113 larvae of, distinguishing instars of xvlate) in Musca domestica, effects on nervous system of 2843 resistance to, in, Musca domestica 2843 Cnephia ornithophilia Culex minor, in Thailand 1606 Culicidae, in Thailand 1607 breeding places of 1113 in Canada 1113 Wyeomyia vanduzeei, in Florida Cisterns, Cyclops spp. in, in Mali 1224 in USA 365 Coelomomyces couchii sp. nov., description of 1653 in, *Anopheles farauti,* in Solomon Islands 1653 Citellophilus tesquorum in streams, distribution pattern of 1113 mid-gut in, pH in 848 on turkeys, in Florida 365 traps for 365 blood-meals in, digestion of 498 digestive enzymes in 498 in USSR 2346 Coelomomyces iliensis on Citellus musicus, in Caucasus 2346 seasonal abundance of 2346 sex ratio in 502 Cnephia tredecimata in Sweden 1664 Acanthocyclops viridis 773 Aedes caspius 773 not infective 2377 in lake outlets, drift and colonisation by Yersinia pestis in, blockage formation by 1664 Cnetha konoi (see Simulium konoi) A. flavescens, not infective 2377 Anopheles maculipennis, not infective 2377 Citellus alaschanicus, Minyctenopsyllus Cnetha subcostatum (see Simulium triangularus on, in Kansu Province 328 subcostatum) Citellus musicus, Siphonaptera on, in Caucasus 2346
Citral (see 2,6-Octadienal, 3,7-dimethyl-)
Citric acid (see 1,2,3-Propanetricarboxylic acid, 2-hydroxy-)
Citrus groves, Plexippus paykulli in, in Florida 293 Culex modestus 773 infectivity of 2377 C. pipiens 773 Cnidaria Aiptasia pallida 2360 Anemonia 2659 Condilactis 1515 Hydra 339, 2126 C. pipiens 773 in Uzbekistan 3070 infectivity of 2377
Eucyclops agilis 773 Cnidocampa flavescens (see Monema

flavescens)

| Coelomomyces iliensis contd. | Colorado tick fever contd. | Conferences (1978) |
|--|---|---|
| life-cycle of 773 Coelomomyces iliensis culicis, var. nov., | virus contd. in contd. | American Society of Parasitologists 10 American Society of Tropical Medicine |
| description of 3070 | man contd. | and Hygiene 10 |
| Coelomomyces opifexi, in, Aedes australis, | in Canada 2964 | Brazilian Society for the Advancement of |
| development of 785 Coelomomyces psorophorae | small mammals, in Colorado 648 Columba livia (see Pigeon) | Science 960 California Mosquito and Vector Control |
| descriptions of 354 | Columba palumbus, Mallophaga on, in Spain | Association 83, 206 |
| host specificity in 2428 | 1480 | Chemical ecology: odour communication |
| Acanthocyclops vernalis 354 | columbae, Ceratophyllus columbiae, Psorophora | in animals 29 Conference of Pest Control 1405 |
| Culiseta inornata | Columbicola | Entomological Society of America, |
| encystment of 354 | on Columba palumbus, in Spain 1480 | Eastern Branch 1818 |
| encystment of zygotes of 2420 penetration of cuticle by 2428 | on pigeon, in Spain 1480 on Streptopelia turtur, in Spain 1480 | Entomological Society of Korea 339 Genetics in relation to insect management |
| motile cells of 2420 | Columbiformes, Mallophaga on, in Spain | 2266 |
| Coelomomyces punctatus | 1480 | Immunology of Malaria 2369 |
| culture methods for 2802 in | Colutea buhsei, repellent activity of extracts of 246 | International Congress of Acarology 1973, 2544 |
| Acanthocyclops vernalis 2802 | Communicable diseases, population biology | International Congress of Parasitology |
| Anopheles quadrimaculatus 2802 Coelomycidium simulii, in, Simulium spp., in | of 311 communis, Aedes | 730 International Congress of Pesticide |
| Kazakhstan 2454 | communis, Psoroptes (see P. equi) | Chemistry 300, 690, 1460 |
| Coenosia tigrina, biology of 1689 | Comoro Islands, entomological fauna of | Joint meeting of the Working Groups: |
| Coffea arabica (see Coffee) Coffea canephora (see Coffee) | 2690 Comperia merceti | Biological control of olive pests; Genetic control of <i>Rhagoletis cerasi</i> ; |
| Coffee (Coffea spp.) | in India 1268 | Genetic control of Ceratitis capitata; |
| Coffee plantations | parasitising, Supella longipalpa, in India | Genetic control methods against pests |
| Glossina spp. in, in Ivory Coast 571, 2832 | 1268 Complement | 2720 Neurotoxicology of insecticides and |
| G. palpalis in, in Ivory Coast 572 | in guinea-pig | pheromones 476 |
| Colchicine, in Chrysomya megacephala, effects on oocytes of 2861 | inactivation by Loxosceles reclusa venom of 682 | Programme for the control of African animal trypanosomiasis 194 |
| Coldhardiness, Coquillettidia perturbans | role in tick resistance of 408 | Radar, insect population ecology, and pest |
| 154 | in man, role in hemolysis caused by | management 1243 |
| Coleoptera glycogen in, reserves of 2536 | Loxosceles reclusa venom of 685 to Dermacentor andersoni, in guinea-pig | Regional seminar on the use and management of pesticides in Central |
| in Comoro Islands 2690 | 3190 | America 2283 |
| in Italy 987 | Complement fixation tests, for identifying | Symposium on Toxins 1736 |
| in Tuva ASSR 1038 in bakery products 480 | dengue virus in Aedes cell lines 1645 Compositae, Tabanidae on, in Connecticut | Utah Mosquito Abatement Association 1299 |
| in bat guano, in New Hampshire 1820 | 387 | WHO Expert Committee on Parasitic |
| in cattle dung, resource partitioning among guilds of 636 | Compost heaps, Diptera in, in California 207 | Zoonoses 979 Conferences (1979) |
| in rabbit burrows, in Sweden 602 | compressa, Ampulex | American Mosquito Control Association |
| insecticide resistance in 428 | Computers | 2389 |
| on Talpidae, in USA 1814 pheromones in, perception of 476 | use in mosquito control of 805 use in taxonomy of 436 | Australian Applied Entomological Research Conference 2309 |
| preyed on by, Corvus frugilegus, in New | concanensis, Ornithodoros | California Mosquito and Vector Control |
| Zealand 1396 | Conception, in Bos indicus × B. taurus, | Association 1509, 1849, 2480 |
| preying on, molluscs 2037 vertebrate associations of, evolution of | effects of Boophilus microplus on 252 conchobius, Eretmapodites silvestris | Central States (Kansas) Entomological Society 1189 |
| 2294 | concinna, Haemaphysalis | Entomological Society of Korea 2357 |
| Collembola, preyed on by, Womersia strandtmani 665 | Condilactis, toxin of, effects on axonal sodium transport in Periplaneta | FAO Conference 2316 FAO/IAEA International Symposium on |
| collusor, Hippelates | americana of 1515 | the Use of Isotopes for Research and |
| Colocasia, Culicidae in axils of, in | Conepatus mesoleucus, Neotrichodectes | Control of Vectors of Animal |
| Philippines 1312 Coloceras | arizonae on, in Texas 1530 Confectionery, Monomorium pharaonis in | Diseases, Host Pathogen Relationships and the Environmental Impact of |
| on Columba palumbus, in Spain 1480 | 460 | Control Procedures 2287 |
| on Streptopelia turtur, in Spain 1480 | Conferences (1974), Pesticide usage in | German Society for Tropical Medicine 729 |
| Colombia Aedes aegypti in 1344, 3077 | Nigeria 567 Conferences (1975), European Multicolloquy | Insects of medical importance in Saudi |
| Argas magnus in 245 | of Parasitology 439 | Arabia 2990 |
| Boophilus microplus in, on cattle 1761 Dermatobia hominis in, on cattle 2685 | Conferences (1976) International Congress of Pediatric | International Conference on Ephemeroptera 2894 |
| Haemagogus janthinomys in 1344 | Dermatology 546 | International Symposium on Animal, |
| mites in, in house dust 3225 | International Symposium on Animal, | Plant and Microbial Toxins 1257 |
| Myodopsylla tropica in, on Myotis 1551 Simulium mexicanum in | Plant and Microbial Toxins 2988 Pest Control Conference, Egypt 2697 | International Symposium on the Entomological Fauna of Central |
| on cattle 1368 | Social insects in the anthropogenic | Europe 2043 |
| on horse 1368 yellow fever in 1344, 3080 | environments 234 Conferences (1977) | Italian Union of Zoology 2696 National Congress of Parasitology, Spain |
| Colorado | Australian National Pest Control | 1477 |
| Catallagia calisheri in, on Peromyscus | Conference 449 | National Seminar on Bovine Parasitoses, |
| 1550 Culex tarsalis in 2423 | Ebola virus haemorrhagic fever 988 Ecological, hygienic and economic aspects | Brazil 2676 Regional workshop on biological control, |
| Culicoides variipennis in 1660 | of the control of mosquitoes, rats and | New Caledonia 2375 |
| viruses in 2809 | other vectors 967 | Scientific Working Group on Biological |
| Dermacentor andersoni in 648 Meringis facilis in 327 | International Symposium on Arctic Arboviruses 2960 | Control of Insect Vectors of Disease 2981 |
| Phthiraptera in, on Cynomys 501 | Pest control in food-processing industrial | confinnis, Psorophora |
| Siphonaptera in 1028 | plant and the protection of foodstuffs 478 | conformis, Xenopsylla confusa, Oxysarcodexia |
| on Cynomys 501 Stomoxys calcitrans in, on man 1718 | Problems of insect and tick control. | confusum, Tribolium |
| tick-borne relapsing fever in 2615 | Ecological, medical and legal aspects | congareenarum, Simulium |
| Wohlfahrtia vigil in, on man 1718 Colorado tick fever | 456 Recent Research on Household Pests | congjiangensis, Macrostylophora Congo |
| foci of, identifying of 648 | 1004, 1175, 1219, 1513 | Anopheles spp. in 1848 |
| virus | Seminar on biological control 2291 | A. gambiae in, on man 2413 |
| in man | Society of Vector Ecologists 2794, 2872 Symposium on Grassland Fauna 1694 | Culicidae in 2739 Glossina spp. in, on man 1116, 2836 |
| in California 85 | Symposium on Oriental Entomology 737 | G. fuscipes in 2466 |

| Congo contd. | Coquillettidia perturbans contd. | Coxiella burneti (see also Q fever) |
|--|--|---|
| Glossina contd. | Jamestown Canyon virus in, in Connecticut 1897 | control of slaughtering for 2571 |
| G. palpalis in 1932 malaria in 1848 | larvae of, tolerance of freezing in 154 | vector control for 2571 |
| Phlebotominae in, in forests 2140, 2141 | Coquillettidia richiardii | in |
| Simulium spp. in, nematodes in 842 | autogeny in 2376 | Dermacentor pictus, transmission of |
| sleeping sickness in 1932 | biology of 515 | 2606 |
| trypanosomiasis in 1116 | in USSR 1076, 2376 | game 2261 Hyalomma asiaticum, transmission of |
| Congo virus (Crimean hemorrhagic fever virus) | in Yugoslavia 446 larval development in 515 | 2606 |
| in | on man, in Belorussia 1076 | Ixodes persulcatus, transmission of |
| Argas persicus, trans-stadial survival of | oogenesis in 2747 | 2606 |
| 1442 | population age composition in 2376 | Rhipicephalus turanicus, transmission |
| Culicidae, not found 993 Culicoides spp. 993 | Coquillettidia venezuelensis arboviruses in, in French Guiana 2732 | of 2606 |
| in Nigeria 857 | Guama viruses in, in Suriname 544 | sheep, in West Germany 2571 vectors of 2571 |
| domestic animals, in Yugoslavia 2217 | in French Guiana 2732 | Coyote (see Canis latrans) |
| Hyalomma marginatum, in USSR | in Suriname 544 | Crab holes, Uranotaenia srilankensis in, in |
| 2902 Ixodoidea 993 | Cordylobia, on Cricetomys gambianus, in Nigeria 3212 | Sri Lanka 1636 |
| man, in USSR 2902 | Cordyluridae, in livestock farms, in Bulgaria | Cracidae, Rhodnius pallescens on, in |
| review 1198 | 877 | Panama 3024 |
| vectors of 256 | corethroproctus, Macronyssus | craggi, Aedes craniifer, Blaberus |
| coniceps, Alectorobius (see Ornithodoros coniceps) | coriaceus, Ornithodoros Cormorant, Ixodes signatus on, in USSR | Crappie, black (see Pomoxis |
| coniceps, Ornithodoros (Alectorobius) | 2963 | nigromaculatus) |
| Conjunctivitis, in man, caused by Euproctis | Corn (U.S. usage) (see Maize) | crassicauda, Androctonus |
| similis 461 | Corn gromwell (see Lithospermum arvense) | crassipalpis, Parasarcophaga (see |
| Connecticut Aedes spp. in 1826 | coronata, Prionotheca corporis, Pediculus (see P. humanus) | Sarcophaga crassipalpis) crassipalpis, Sarcophaga (Parasarcophaga) |
| viruses in 1897 | corporis, Pediculus humanus (see P. | crassipes, Bovicola (see Damalinia crassipes) |
| A. cantator in, in salt marshes 1574 | humanus) | crassipes, Coquillettidia |
| A. sollicitans in, in salt marshes 1574 | Corrodopsylla birulai | crassipes, Damalinia (Bovicola) |
| Chrysops obsoletus in, viruses in 1897 Coquillettidia perturbans in, viruses in | biotopes of 499 in USSR 499 | crassipes, Lepiselaga crassipes, Megaselia |
| 1897, 1898 | on small mammals, in USSR 499 | Crataerina hirundinis |
| Culex spp. in, viruses in 1898 | Corticosterone (see Pregn-4-ene-3,20-dione, | in Morocco 883 |
| Culiseta melanura in, viruses in 1896, | 11,21-dihydroxy-, (11β)-) Corvus frugilegus | in <i>Delichon urbica</i> nests, in Morocco 883 |
| Dermacentor variabilis in 251 | Philopterus spp. on 1842 | Creosol (see Phenol, 2-methoxy-4-methyl-) |
| Ixodes scapularis in 251 | preying on, arthropods, in New Zealand | crepuscularis, Culicoides |
| Psorophora ferox in 1826 | 1396 | Cresol (see Phenol, methyl-) |
| Tabanidae in 387 | Corydalidae, preying on, Simuliidae, in Brazil 1373 | Cricetomys gambianus, arthropod parasites of, in Nigeria 3212 |
| Connochaetes gnou, Kirkioestrus minutus on, not found 3139 | Coryphistera alaudina | Cricetulus barabensis, Amphipsylla |
| Connochaetes taurinus, Kirkioestrus minutus | Triatoma infestans in nests of, in | tenuihama on, in Qinghai Province |
| on, in South Africa 3139 | Argentina 493 | 1036 |
| consocia, Latoia (Parasa) consocia, Parasa (see Latoia consocia) | T. platensis in nests of, in Argentina 493 Costa Rica | Cricetulus longicaudatus Amphipsylla jingtieshanensis on, in |
| Convolvulus, insect growth regulator activity | Calliphoridae in 2532 | Qinghai Province 1037 |
| of extracts of 1341 | Lutzomyia spp. in, flagellates in 1099 | A. tenuihama on, in Qinghai Province |
| Cook Islands | rickettsial diseases in 2208 | 1036 |
| Culicoides belkini in 1097, 1098 entomophagous insects in 2058 | Simuliidae in 3118 Tabanidae in, natural enemies of 2496 | Cricetulus migratorius, Leptotrombidium apertum on, in Tadzhikistan 932 |
| Periplaneta americana in 2058 | costalimai, Telenomus | Cricetulus triton, Leptotrombidium |
| cookei, Ixodes | Cottage cheese, diet component for, | subintermedium on, in China 2638 |
| cooki, Aedes cooleyi, Argas | Cotton (Gossanium ann.) | Cricetus cricetus, Amphipsylla tenuihama |
| Copepoda | Cotton (Gossypium spp.) pest control on, side-effects of 2284 | on, in Qinghai Province 1036 Cricket (see Grylloidea) |
| in ponds | Cough, in man, caused by Grylloidea 2896 | Cricotopus bicinctus |
| effects of diflubenzuron on 211 | couloniana, Shawella | in USA 2491 |
| effects of insect growth regulators on 2482 | Coumaphos (O-(3-chloro-4-methyl-2-oxo-2H- | in flood-control channels, diel drift of 2491 |
| in rivers, effects of temephos on 1928 | 1-benzopyran-7-yl) <i>O,O</i> -diethyl phosphorothioate) | Cricotopus sylvestris |
| Copper | against | in USA 1137, 2491, 2804 |
| ion (Cu ²⁺) | Boophilus annulatus 1746 | in flood-control channels, diel drift of |
| in Aedes aegypti, inhibition of larval negative phototaxis by 346 | B. microplus 1746 Chorioptes bovis, on cattle 2012 | in rice-fields, distribution pattern of 1137 |
| in Musca domestica, not affecting | Haematobia irritans 2884 | on rice, in California 2804 |
| secretion by Malpighian tubules | on cattle 1701 | preyed on by, Hydrophilidae, in California |
| 3178 | pests of livestock 2281 | 2804 |
| Copris incertus, in Western Samoa, introductions of 2375 | Psoroptes spp. on cattle 934, 2239 | Crimean hemorrhagic fever (see Hemorrhagic fever, Crimean) |
| Copromyza atra | on sheep 2239 | Crimean hemorrhagic fever virus (see Congo |
| in France 1697 | P. ovis | virus) |
| in cattle dung, in France 1697 Coprophagy, in Simulium 3125 | on cattle 1452, 2012 on sheep 1770, 2555 | Criniscanor allactaga sp. nov., description of 2247 |
| Coptopsylla, on gerbil 1021 | Rhipicephalus sanguineus 2614 | in Mongolia 2247 |
| Coptopsylla lamellifer | on dog 2595 | on Allactaga sibirica, in Mongolia 2247 |
| in USSR 2348 | Sarcoptes scabiei, on cattle 2012 | Criniscansor apodemi |
| on Meriones, in USSR 2348 on Rhombomys opimus, in USSR 2348 | in cattle dips 1746 in cattle milk, residues of 694 | in Spain 1478 on small mammals, in Spain 1478 |
| Coquillettidia 2546 | resistance to, in, Boophilus microplus, in | Criophos (see Trichlorphon) |
| California encephalitis, virus in, in New | Brazil 2616 | Crithidia, biology of 45 |
| York 147 | Country parks, mosquito control in 2118 | Crithidia fasciculata, in, Anopheles gambiae |
| in France 177 in Maritime Provinces 1617 | coustani, Anopheles Cowdria, in, cattle, in Zimbabwe 654 | 475 Crocidura attenuata, Gahrliepia hegu on, in |
| Coquillettidia crassipes, in Japan 821 | Cowdria ruminantium | Yunnan Province 1212 |
| Coquillettidia perturbans | control of, vector control for 2004 | Crocidura orii, Palaeopsylla nippon on, in |
| Flanders virus in, in Connecticut 1898 in USA 154, 1897, 1898 | in cattle in Zimbahwe 2004 | Ryukyu Islands 718 |
| in bogs, in Minnesota 154 | cattle, in Zimbabwe 2004 goat, in Zimbabwe 2004 | Cromoglicic acid, for treating hypersensitivity to storage mites 1207 |
| in marshland, in Minnesota 154 | sheep, in Zimbabwe 2004 | crotali, Porocephalus |

| Crotamiton (N-ethyl-N-(2-methylphenyl)-2- | Cuba contd. | Culex australicus contd. |
|--|--|---|
| butenamide) against, pests of pet birds 669 | Ixodoidea in 407 cuiae, Macrostylophora | proteins in 1632 Rickettsiaceae in, in Western Australia |
| Crotoxyphos (1-phenylethyl (E)-3- | Cuivre 'oligosol', in rabbit, effects on | 1632 |
| [(dimethoxyphosphinyl)oxy]-2-butenoate) | Glossina palpalis of 2835 | taxonomy of 1632 |
| against | Culex | Culex axillicolus |
| Cephenemyia trompe 1676 | arboviruses in, in California 1851 | sp. nov., description of 1580 |
| Hyalomma spp. 2605 Hybomitra sexfasciata 1676 | attraction of, to mammals 2737 biology of 986 | in Papua New Guinea 1580 |
| Rhipicephalus bursa 2605 | Bunyaviridae in, transmission of 2968 | Culex barraudi, taxonomy of, characters distinguishing C. edwardsi and 1635 |
| R. sanguineus 2614 | Coelomomyces spp. in, in Thailand 1607 | Culex bitaeniorhynchus |
| Wohlfahrtia spp., on cattle 3153 | control of, insecticides for 971 | genitalia in 353 |
| crucians, Anopheles Crufomate (2-chloro-4-(1,1- | enzymes in, determination of 513 Flanders virus in, in Connecticut 1898 | in India 2773 |
| dimethylethyl)phenyl methyl | Formicaphagus spp. on, in Brazil 1290 | on man, in Andhra Pradesh 2773 Culex bougainvillensis |
| methylphosphoramidate) | genetics of, electrophoretic techniques for | sp. nov., description of 1580 |
| against 18 | studying 143 | in Solomon Islands 1580 |
| Cuterebra fontinella, on mouse 18 Dermatobia hominis, on cattle 204, | Guama viruses in, in Suriname 544 hygienic importance of 458 | Culex duttoni, taxonomy of, characters distinguishing C. watti and 2781 |
| 2685 | identifying of, review 830 | Culex educator, in Brazil 1555 |
| Gasterophilus spp., on horse 3141 | in Amami Islands 713 | Culex edwardsi |
| Hypoderma spp., on cattle 575 | in American Samoa 1634 | distribution of 1635 |
| H. lineatum, on cattle 2479 Psoroptes ovis, on cattle 1452 | in Brazil 125, 3056 in California 86 | in Philippines 1635 taxonomy of, characters distinguishing C |
| Rhinoestrus purpureus, on horse 3141 | in China 2429 | barraudi and 1635 |
| formulations of, pour-on 204 | in Djibouti 1075 | Culex epanastasis |
| Crustacea in ponds, effects of larvicidal oils on | in Dominican Republic 2086 in Finland 1916 | in Brazil 1555 taxonomy of, characters distinguishing C |
| 1605 | in France 177 | lopesi and 1555 |
| preyed on by, Hydrophilidae, in California | in Indonesia 2090 | Culex erraticus |
| 100 | in Malagasy Republic 2408 in Maritime Provinces 1617 | control of, biological 141 enzymes in 1599 |
| preying on, molluscs 2037 cruzii, Anopheles | in New Ireland 1580 | in USA 141, 1308, 1620 |
| Cryoprotectants, for spores of Microsporidia | in Ryukyu Islands 713, 821 | in rice-fields, in Louisiana 1620 |
| 612 | in Switzerland 2751 | on birds, in Florida 1308 |
| Ctenocephalides canis control of, insecticides for 3245 | in USSR 9 in West Germany 458 | Culex erythrothorax arboviruses in, in California 85, 1851 |
| in Japan 718 | in irrigated pastures, in California 96 | feeding behaviour in 1884 |
| on dog, in Ryukyu Islands 718 | in rock pools, in Utah 1303 | in USA 85, 1851, 1884, 2796 |
| Ctenocephalides cati (see C. felis felis) Ctenocephalides felis | in wells, in Mali 1224 light responses in 541 | on man, in California 1884 traps for 2796 |
| control of, insecticides for 1265, 2351 | Microsporidia in, in Thailand 1606 | Culex ethiopicus |
| in Japan 718 | on birds, in Central African Republic | in Gambia 1330 |
| in USA 1256, 1265, 2351 in dwellings, in Indiana 1265 | 3047 on man, in Italy 971 | in rice-fields, in Gambia 1330 vertical distribution of 1330 |
| on cat, in Ryukyu Islands 718 | preyed on by, Sphaerodema annulatum | Culex fatigans (see C. quinquefasciatus) |
| on dog, in Ryukyu Islands 718 | 1327 | Culex fuscanus, in Pakistan 1354 |
| on man, in Maryland 2351 on <i>Procyon lotor</i> | Rift Valley fever, virus in, in Africa 976 Saint Louis encephalitis | Culex fuscocephalus descriptions of 174 |
| in Indiana 1256 | virus in | in Philippines 823 |
| in Maryland 2351 | detecting of 3032 | in Taiwan 174 |
| Ctenocephalides felis felis | in Iowa 137 transmission of 2409 | Culex gelidus |
| in Spain 1495 life-cycle of 497 | taxonomy of, cibarial armature as | control of, insecticides for 2771 DDT resistance in, in Karnataka 2771 |
| on horse, in Spain 1495 | characters for 2429 | dieldrin resistance in, in Karnataka 277 |
| Ctenocephalides felis strongylus in Burundi 2718 | traps for 541 | in India 2771 |
| on man, in Burundi 2718 | Culex andricus, genitalia in 353 Culex annulioris | Culex globocoxitus in Australia 1632 |
| on small mammals, in Burundi 2718 | feeding behaviour in 2739 | proteins in 1632 |
| Ctenophthalmus | in Congo 2739 | Rickettsiaceae in, in Western Australia |
| in Bulgaria 330 on gerbil 1021 | seasonal abundance of 2739 Culex annulirostris | 1632 taxonomy of 1632 |
| Ctenophthalmus agyrtes | arboviruses in, in Queensland 3084 | Culex halifaxii |
| hosts of, transfer between 1032 | Eubenangee virus in 2995 | feeding behaviour in 547 |
| in Czechoslovakia 1032 Ctenophthalmus golovi, development in | feeding index for 507 host preferences of 1291 | in India 547 preying on |
| 2347 | in Australia 507, 1291, 1903, 3083, 3084 | Anopheles spp. 547 |
| Ctenophthalmus golovi golovi | in Wallis and Futuna Islands 124 | Culex pipiens 547 |
| in USSR 2346 on Citellus musicus, in Caucasus 2346 | Murray Valley encephalitis, virus in, transmission of 1323 | Culex idottus, genitalia in 353 Culex impudicus, in Portugal 1640 |
| seasonal abundance of 2346 | on cattle, in Queensland 1291 | Culex intrincatus |
| Ctenophthalmus nobilis, air resistance of | on dog, in Queensland 507 | genitalia in 353 |
| 731 Ctenophthalmus orientalis | on fowl, in Queensland 507 on man, in Queensland 507 | in Brazil 1555 Culex iolambdis |
| in USSR 2346 | population age structure in 1903 | in USA 1308 |
| on Citellus musicus, in Caucasus 2346 | rearing of, techniques for 1661 | on birds, in Florida 1308 |
| seasonal abundance of 2346 Ctenophthalmus pseudagyrtes | seasonal abundance of 3083 Semliki Forest virus in, interference | Culex laticinctus, in Portugal 1640 Culex lopesi |
| in USA 1028, 2282 | between strains of 539 | sp. nov., description of 1555 |
| on rodents, in Colorado 1028 | Culex annulus (see C. vishnui) | in Brazil 1555 |
| on Sylvilagus floridanus, in Virginia 2282 | Culex antennatus in Egypt 1096 | Culex mimeticus, in Portugal 2089 Culex minor |
| Ctenophthalmus teres | in Gambia 1330 | Coelomomyces spp. in, in Thailand 160 |
| in USSR 1546 | in Malagasy Republic 2408 | in Thailand 1606 |
| in Microtus arvalis nests, in Armenia 1546 | in rice-fields, in Gambia 1330 | Culex misionensis, in Brazil 1555 Culex modestus |
| Ctenophthalmus uncinatus, in Bulgaria | insecticide resistance in, in Egypt 1096 vertical distribution of 1330 | Coelomomyces iliensis in 773 |
| 1287 | Wuchereria bancrofti in, transmission of | infectivity of 2377 |
| Ctenophthalmus wladimiri, digestive enzymes in 498 | 1096 Culex australicus | control of, insecticides for 975 in France 968 |
| Cuba | allergens of 1506 | in Italy 975 |
| Antricola spp. in 406 | in Australia 1506, 1632 | in Portugal 1639 |
| dengue in 167 | on man, hypersensitivity to 1506 | in USSR 2106, 3090 |

```
Culex pipiens australicus (see C. australicus)
Culex modestus contd.
                                                                                         Culex pipiens
    in rice-fields, in France 968
                                                                                             arachidonic acid in, dietary requirement
                                                                                                                                                                                  Culex pipiens fatigans (see C.
     Kyzylagach virus in, in Azerbaijan
                                                                                                  for 519
                                                                                                                                                                                        quinquefasciatus)
     West Nile virus in, transmission of 968
                                                                                             arboviruses in, in California 1851
                                                                                                                                                                                  Culex pipiens molestus (see also Culex
                                                                                             autogeny in 1921
biology of 1077
                                                                                                                                                                                       molestus)
Culex molestus (see also Culex pipiens
   molestus)
control of, insecticides for 1642, 2388
in Australia 1632
in Japan 2434
in USSR 2110
in basements, in Uzbekistan 2110
insect growth regulators in, inhibition of
protein and nucleic acid synthesis by
2421
      molestus)
                                                                                                                                                                                      cell cultures from
                                                                                             Coelomomyces iliensis in 773
in Uzbekistan 3070
infectivity of 2377
                                                                                                                                                                                          effects of drugs on 1043
                                                                                                                                                                                          effects of pesticides on 1043
                                                                                                                                                                                      control of
                                                                                                                                                                                          growth regulators for 338 insecticides for 803
                                                                                             control of
                                                                                                 biological 551, 1590, 1604, 1891, 2382,
                                                                                                 3066
genetic 2268
                                                                                                                                                                                      Japanese encephalitis, virus in, replication
                                                                                                                                                                                            of 165
                                                                                                 growth regulators for 113 insecticides for 146, 697, 971, 975, 1300, 1888, 2743
                                                                                                                                                                                      Romanomermis culicivorax in, infectivity
    larvae of, effects of crowding on 2091
                                                                                                                                                                                            of 822
    on man, in Uzbekistan 2110
                                                                                                                                                                                      sterilisation of, chemosterilants for 1041
    on man, in Ozbekistan 2110
overwintering in 2434
oviposition in 2434
stimulated by egg apical droplets 1654
proteins in 1632
                                                                                                 mucilaginous seeds for 2120
                                                                                                                                                                                  Culex pipiens pallens
                                                                                                 timing of 1888
                                                                                                                                                                                      cibarium in, sensilla on 2731
                                                                                             cytoplasmic incompatibility in 1593 descriptions of 1077, 1295 diflubenzuron in, inhibition of chitin synthesis by 812 enzymes in 2359
                                                                                                                                                                                      control of
                                                                                                                                                                                     growth regulators for 118 insecticides for 699, 2937, 3074 diapause in 1081 in Australia 1632 in Japan 118, 3071, 3074
    Romanomermis culicivorax in, infectivity
    of 2787
seasonal abundance of 2110
                                                                                             fatty acids in, dietary requirement for 519
    taxonomy of 1632
Culex neavei
                                                                                             feeding behaviour in 150
Flanders virus in, in Connecticut 1898
                                                                                                                                                                                      in South Korea 2357
    feeding behaviour in 2739
    in Congo 2739
in Gambia 1330
                                                                                                                                                                                      in drainage ditches, in Honshu 118
                                                                                                                                                                                     in drainage ditches, in Honshu 118 in rice-fields, distribution pattern of 3071 in swamps, distribution pattern of 3071 larvae of, effects of crowding on 2091 on man, hypersensitivity to 546 pharyngeal valves in 2731 preyed on by

Aplocheilus latipes 339

Dugesia japonica 339

Hydra spp. 339

Poecilia reticulata 339

Zacco platynus 339
                                                                                             rianders virus in, in Collifect
in Canada 2382
in Egypt 1349, 2362
in Italy 969, 971, 975, 2967
in Portugal 1640
in Romania 2430
    in rice-fields, in Gambia 1330
seasonal abundance of 2739
vertical distribution of 1330
Culex nebulosus
flight activity in 3046
in Nigeria 3046
sex ratio in 3046
Culex neovishnui
                                                                                             in Romania 24-30
in South Africa 340
in UK 351
in USA 113, 146, 157, 798, 1300, 1593,
1851, 1853, 1888, 1891, 1898, 1921,
    descriptions of
in Taiwan 174
                                                                                                    3066
                                                                                                                                                                                      Zacco platypus 339 proteins in 1632
                                                                                             in USSR
                                                                                                               2106, 3070
in Taiwan 174

Culex nigripalpus
dispersal of 3049
flight activity in 1301, 1331

Formicaphagus spp. on, in Ecuador 1290
habitats of 1301, 3049
host preferences in 1301
in Dominican Republic 2047, 2086
in Ecuador 1290
in USA 12, 122, 1301, 1331, 3049, 3059

Plasmodium hermani in, in Florida 12
population dynamics of 1301
Saint Louis encephalitis, virus in, in
                                                                                             in Yugoslavia 446
                                                                                                                                                                                      resting places of 3071
                                                                                             in catch basins
                                                                                                 in California 113
in Ontario 2382
                                                                                                                           113, 1888
                                                                                                                                                                                      Romanomermis culicivorax in, infectivity
                                                                                            in Ontario 2382
in dairy lagoons, in California 3066
in storm drains, in California 1888
in tyres, in Kentucky 157
insecticide resistance in, in Utah 1300
linkage groups in, markers for 1355
mouthparts in 162
nervous system in 2105
nutrition of 133
on fowl, feeding by 150
on man
                                                                                                                                                                                            of 822
                                                                                                                                                                                      taxonomy of 1632
                                                                                                                                                                                      Tetrahymena spp. in, in South Korea 2357
                                                                                                                                                                                  Culex pipiens pipiens
control of, insecticides for 1642
enzymes in 829
                                                                                                                                                                                      in USA 1631
in USSR 2110
    population dynamics of 1301
Saint Louis encephalitis, virus in, in
Florida 122, 1301
survival of 3049
traps for 1331, 2259
                                                                                                                                                                                      in West Germany 2370
in basements, in Uzbekistan 2110
                                                                                             on man
                                                                                             feeding by 150 in Italy 969, 971 overwintering in 351, 1556 plant extracts in, inhibiting pupation
                                                                                                                                                                                      methoprene resistance in, mechanisms of 829, 2753
         visual responses to 3059
visual responses to 3059
vitellogenesis in, not induced by
ecdysterone 1629
Culex ocellatus (see C. bitaeniorhynchus)
Culex opisthopus
in Guatemala 1646
in USA 1308
                                                                                                                                                                                      oviposition in 2370
Saint Louis encephalitis, virus in, transmission of 1577
seasonal abundance of 2110
                                                                                                    1341
                                                                                             plum-eye mutant of 1355
preyed on by
Culex halifaxii 547
                                                                                                                                                                                      taxonomy of, characters distinguishing C.

quinquefasciatus and 1631
    on man, in Guatemala 1646
on rodents, in Florida 1308
                                                                                                  Sarotherodon spp. 3067
                                                                                             Pseudomonas aeruginosa grazed by 3067
                                                                                                                                                                                  Culex pipiens quinquefasciatus (see C.
                                                                                             rearing of, diets for 1906
Rift Valley fever
     Venezuelan equine encephalitis, virus in,
                                                                                                                                                                                        quinquefasciatus)
                                                                                                                                                                                  Culex poicilipes
in Gambia 1330
          in Guatemala 1646
Culex pallens (see C. pipiens pallens)
                                                                                                 virus in
                                                                                                                                                                                      in rice-fields, in Gambia 1330 vertical distribution of 1330
Culex peccator
in USA 1308
on reptiles, in Florida 1308
                                                                                                     in Africa 976
in Egypt 2362
transmission of
                                                                                                                                                                                  Culex portesi
arboviruses in, in French Guiana 2732
gonotrophic cycle in 3030
Guama viruses in, in Suriname 544
in French Guiana 2732, 3030
                                                                                                                                   2362
Culex penai
                                                                                             Romanomermis culicivorax in, rearing of
    sp. nov., description of 353 in Bolivia 353 in Ecuador 353
                                                                                                   104
                                                                                             Saint Louis encephalitis, virus in, transmission of 150
Culex perfuscus
                                                                                             Ťahyňa virus in, in Romania 2430
                                                                                                                                                                                      in Suriname 544
                                                                                             taxonomy of
     feeding behaviour in 2739
                                                                                                                                                                                      on Didelphis marsupialis, in French
                                                                                                  characters distinguishing C
     in Congo 2739
                                                                                                 quinquefasciatus and 340 characters distinguishing C. torrentium and 351
                                                                                                                                                                                            Guiana 3030
                                                                                                                                                                                      on man, in French Guiana 3030
on Philander opossum, in French Guiana 3030
     seasonal abundance of 2739
Culex peus
    control of
    biological 3066
growth regulators for 114, 1859
oils for 114
timing of 114
in USA 114, 1859, 3066
in catch basins, development of 114
in dairy lagoons, in California 3066
                                                                                                                                                                                      on Rattus norvegicus, in French Guiana 3030
                                                                                             western equine encephalitis, virus in, not infective 2970
                                                                                              Wolbachia pipientis in 2803
                                                                                                                                                                                      Tonate virus in, in Suriname 544
                                                                                                                                                                                  Culex pruina in Central African Republic 3047
Sindbis virus in, in Central African Republic 3047
                                                                                             group of
                                                                                                  cytoplasmic crossing polymorphism in
                                                                                                        2427
                                                                                                  electrophoresis for differentiating taxa
                                                                                                 in 2274
in Iowa 137
     in flood-control channels, in California
                                                                                                                                                                                  Culex pseudovishnui
                                                                                                                                                                                  control of, growth regulators for 508 in India 2773 on man, in Andhra Pradesh 2773

Culex pulchrithorax biology of 2087 descriptions of 2087 in South Africa 2087
           1859
    western equine encephalitis, virus in, not
infective 2970
Wolbachieae in, not found 2803
                                                                                                 in tree holes, in Spain 1490
                                                                                                  insecticide resistance in, in Egypt 1
Mermet virus in, in Tennessee 828
proteins in 1632
Culex pilosus
in USA 1308
on reptiles, in Florida 1308
                                                                                                  Wuchereria bancrofti in, transmission of
```

| Culex quinquefasciatus | Culex quinquefasciatus contd. | Culex squamosus |
|--|---|--|
| arboviruses in, in Queensland 3084 | on man contd. | host preferences of 1291 |
| Bacillus alvei in, pathogenicity of 2769 | in California 1884 | in Australia 1291 |
| B. sphaericus in, pathogenicity of 2769 B. sphaericus in, pathogenicity of 1087, | in Delhi 2695 in Queensland 1291 | Culex summorosus (see C. tritaeniorhynchus summorosus) |
| 1088 | in Tanzania 131 | Culex taeniopus |
| bacteria in, in Thailand 1606 | oviposition in | eastern equine encephalitis, virus in, in |
| Beauveria tenella in | attractants for 97, 2366 | Panama 2368 |
| in Tamil Nadu 2772 | repellents for 97, 2366, 2791 | in Panama 2368 |
| pathogenicity of 2772 breeding places of 1075, 3045 | stimulated by egg apical droplets 1654 peritrophic membrane in 1328 | in Suriname 544 |
| Brugia malayi in, damage to 2371 | phagostimulants for 1554 | Tonate virus in, in Suriname 544 Culex tarsalis |
| carbon dioxide in, responses to 1905 | Plasmodium cathemerium in, effects on | arboviruses in, in California 85, 1851 |
| Cnidosporidia in, in Thailand 1606 | amino acids of 440 | black-eye mutant of 110 |
| control of 2782 | population dynamics of 3052 | breeding places of 1853 |
| biological 1569, 3066 destroying breeding places for 1075, | predators of, effects of insecticides on 801 | Cache Valley virus in, in Saskatchewan |
| 1329 | preyed on by | 1089 |
| growth regulators for 114, 508, 956, | Buenoa scimitra 99 | carmine-eye mutant of 110, 111 |
| 1070, 1306, 1329, 1393, 1859, 1918, | Dugesia dorotocephala 1054 | chromosomes in 109 control of 134, 1850 |
| 2744 insecticides for 116, 131, 801, 1070, | Mesogomphus lineatus 1919 Notonecta unifasciata 99 | biological 107, 1604, 1865, 1866, 1872, |
| 1075, 1329, 1855, 1856, 1909, 2374, | Plea striola 1894 | 3066 |
| 2384, 3060 | proteins in 1632 | genetic 1314, 1867 |
| lecithin monolayers for 1560 | rearing of, techniques for 1554, 2385 | models of 1353 |
| oils for 114 timing of 114 | Romanomermis culicivorax in comparative elemental composition of | growth regulators for 1859, 2744 insecticides for 116, 1300, 1858, 1872 |
| to control filariasis 722 | 2406 | models of 1352 |
| Culicinomyces spp. in, infection routes of | infectivity of, effects of pH on 1626 | non-target effects of 163 |
| 506 | rose Bengal in, light-dependent toxicity of | sterile-insect release for 1867 |
| DDT resistance in, in Brazil 1572 | 1573 | timing of 91 |
| descriptions of 174 | Saint Louis encephalitis virus in | dispersal of 92 effects of genetic modifications on |
| enzymes in 342 | in Arkansas 3032 | 1876 |
| feeding behaviour in 1884 | infectivity of 1852 | effects of laboratory rearing on 3093 |
| Filarioidea in, susceptibility to 2427 | SIR-8514 in, effects of 1918 | egg-hatch in, predicting of 91 |
| flight activity in | swarming in 2383 | enzymes in 831 |
| effects of accessory-gland secretion on 1648 | taxonomy of 1632 characters distinguishing <i>C. pipiens</i> and | feeding behaviour in 1576, 1884 fringe-wing mutant of 110 |
| rhythm of 1045 | 340 | genetic variations in 109 |
| Fusarium oxysporum in | characters distinguishing C. pipiens | heavy rainfall as affecting 94 |
| in Tamil Nadu 2772 | pipiens and 1631 | in Canada 152, 813, 1089 |
| pathogenicity of 2772 Helicosporidium spp. in, in Thailand | temephos resistance in, effects of synergists on 2374 | in USA 85, 90, 91, 92, 94, 95, 96, 98, 100, 103, 107, 116, 134, 137, 163, 796, |
| 1606 | traps for 1887 | 797, 1300, 1302, 1314, 1352, 1353, |
| host preferences of 1291 | visual responses to 3059 | 1850, 1851, 1852, 1853, 1858, 1859, |
| human odour in, responses to 1905 | western equine encephalitis, virus in, not | 1865, 1866, 1872, 1876, 1883, 1884, |
| in Australia 1291, 1632, 3083, 3084 in Brazil 1572 | wind responses in 1905 | 2423, 2744, 2761, 2796, 3066 in conservation areas, in California 1872 |
| in Djibouti 1075 | Wuchereria bancrofti in | in flood-control channels, in California |
| in French West Indies 2782 | detecting of 779 | 1859 |
| in India 1306, 1909, 2383, 2695, 2772, | in Philippines 1312, 1321 | in irrigated pastures, in California 96, |
| 2773 in Japan 722 | in Tanzania 131 transmission of 722 | 1866, 3066 in mine tunnels in Coloredo 2423 |
| in Kuwait 1311 | Culex raptor (see C. halifaxii) | in mine tunnels, in Colorado 2423 in ponds, in California 3066 |
| in Malaysia 1320 | Culex restuans | in rice-fields |
| in Nigeria 3045 | control of | in California 103, 107, 1865, 2761 |
| in Pakistan 2395 | biological 1891, 2382 | sampling of 90 |
| in Philippines 823, 1312, 1321 in South Africa 340 | growth regulators for 1070 insecticides for 146, 1070, 1615 | in salt marshes, in California 3066 insecticide resistance in |
| in Taiwan 174 | Flanders virus in, in Connecticut 1898 | in California 1858 |
| in Tanzania 131 | in Canada 152, 2382 | in Utah 1300 |
| in Thailand 1606 | in USA 146, 157, 798, 828, 1070, 1615, | Lagenidium giganteum in, infectivity of |
| in USA 114, 122, 1070, 1631, 1852, 1859, 1884, 3032, 3059, 3060, 3066 | 1891, 1898 in catch basins, in Ontario 2382 | mating competitiveness in 110, 111 |
| in USA (Hawaii) 2372 | in pig-waste lagoons, in Georgia (USA) | effects of y-irradiation on 1869, 3092 |
| in Venezuela 1347 | 1070 | effects of sex ratio on 1869 |
| in Wallis and Futuna Islands 124 in catch basins, development of 114 | in tyres, in Kentucky 157 | melanotic mutant of 139, 1576 |
| in drainage channels, in Texas 3060 | Mermet virus in, in Tennessee 828 overwintering in 152 | mid-gut in, leaks in 1068 on man, in California 1884 |
| in drains, in India 1306 | Romanomermis nielseni in, rearing of | overwintering in 152, 2423 |
| in dwellings, in Philippines 1312 | 1304 | oviposition in |
| in flood-control channels, in California | western equine encephalitis, virus in, | repellents for 97, 2366, 2791 |
| in pig-waste lagoons, in Georgia (USA) | transmission of 152 Culex salinarius | stimulated by egg apical droplets 1654 population dynamics of 1853 |
| 1070 | Amblyospora spp. in | models of 1352 |
| in roadside drains, in California 3066 | development of 2749 | predators of, effects of insecticides on 98 |
| in water containers | pathogenicity of 1333 | preyed on by |
| in Delhi 2695 in Sabah 1320 | transovarial transmission of 1333 | Buenoa scimitra, in California 98 Hydrophilus triangularis, in California |
| in wells, in Delhi 2695 | growth regulators for 1070 | 100 |
| insecticide resistance in 2427 | insecticides for 1070, 1615 | Mesostoma spp., in California 2761 |
| overcoming of 2285 | Flanders virus in, in Connecticut 1898 | M. lingua, in California 1883 |
| life tables for 1091, 2395 mating in 2383 | in USA 122, 1070, 1615, 1620, 1898, 3032 | Notonecta unifasciata, in California 98 Rhynchomesostoma rostratum, in |
| Metarhizium anisopliae in | in pig-waste lagoons, in Georgia (USA) | California 1883 |
| in Tamil Nadu 2772 | 1070 | Tropisternus lateralis, in California |
| pathogenicity of 2772 | in rice-fields, in Louisiana 1620 | 100 Turkellaria in California 103 |
| Nosema algerae in, pathogenicity of 2770 | Culex sitiens in Philippines 823 | Turbellaria, in California 103 reproduction in |
| on birds, in Delhi 2695 | in Wallis and Futuna Islands 124 | effects of laboratory rearing on 797, |
| on man | Wuchereria bancrofti in, in East Africa | 1868 |
| in Andhra Pradesh 2773 | 550 | strain differences in 110 |

| C. L daniella annel | Cular vishmi | Culinidae contd |
|--|---|---|
| Culex tarsalis contd. | Culex vishnui | Culicidae contd. |
| Saint Louis encephalitis, virus in, | descriptions of 174 | in Korea 2100 |
| infectivity of 1852 | in India 2773 | in Kuwait 1311 |
| sampling of 1877 | in Taiwan 174 | in Malagasy Republic 2408, 2692 |
| sterilisation of, y-irradiation for 3092 | on man, in Andhra Pradesh 2773 | in Manitoba 795 |
| surveillance for 134 | Culex vomerifer | in North America 78 |
| | | in Panama 2401 |
| survival in 2423 | Formicaricola spp. on, in Ecuador 1290 | |
| effects of genetic modifications on | in Brazil 1555 | in Peru 350 |
| 1876 | in Ecuador 1290 | in Philippines 823, 1312, 1321 |
| effects of laboratory rearing on 3093 | Culex watti | in Portugal 1640 |
| | descriptions of 2781 | |
| traps for 95, 2796 | | in Queensland 1291 |
| western equine encephalitis | distribution of 2781 | in Romania 1322 |
| virus in 2127 | in Malagasy Republic 2781 | in Ryukyu Islands 713, 821 |
| in California 1884 | in rock pools, in Malagasy Republic | in Saskatchewan 1089 |
| infectivity of 2970 | 2781 | |
| not transmitted transovarially 2130 | taxonomy of, characters distinguishing C. | in Saudi Arabia 2990 |
| | | in South Australia 8 |
| refractoriness to 1867 | duttoni and 2781 | in Tamil Nadu 1912 |
| transmission of 152, 813 | Culicidae | in West Virginia 798 |
| Culex territans | arboviruses in | |
| in USA 1891 | in Canada 2964 | in Zambia 791 |
| Romanomermis culicivorax in | in Czechoslovakia 126 | in aquatic ecosystems, role of 2756 |
| defence mechanisms against 1900 | in French Guiana 2732 | in forests, effects of drainage on 832 |
| | | in rice-fields, in Kyushu 168 |
| not infective 1891 | in Italy 2967 | |
| Culex thalassius | in Norway 2965 | in rivers, in Spain 1499 |
| flight speed in 2758 | transmission of 2961 | in terrestrial ecosystems, role of 2756 |
| in Gambia 2758 | xenodiagnosis of 2980 | index of species abundance 2124 |
| on man, in Gambia 2758 | Bacillus sphaericus in, detecting of 136 | insecticide resistance in 1505 |
| | | |
| Culex theileri, in Portugal 1640 | biology of 727, 783 | irrigation as affecting 518 |
| Culex torrentium | breeding sites of, detecting of 799 | labrum in 520 |
| in Portugal 2089 | California viruses in, transovarial | land use changes as affecting 2695 |
| in UK 351 | transmission of 2969 | larvae of, sampling of 2123 |
| taxonomy of, characters distinguishing C. | catalogue of 176 | mark-release-recapture with 1880 |
| | | marking of, self-marking device for 1890 |
| pipiens and 351 | chemical ecology of, review 1871 | |
| Culex tritaeniorhynchus | collecting methods for 120 | matrone in, role in reproduction of 40 |
| biology of 168, 1354 | control of 471, 473, 783 | Mermithidae in 2894 |
| control of | aerial sprays for 4 | Microsporidia in, recovery of spores of |
| biological 1296 | biological 159, 468, 1047, 1588, 1589, | 178 |
| | | on birds, in Czechoslovakia 2119 |
| genetic 1920 | 1591, 1861, 2030, 2038, 2354, 2355, | |
| growth regulators for 508 | 2356, 2756, 3036, 3039 | on cattle |
| insecticides for 168, 692 | destroying breeding sites for 823 | effects on milk production of 981 |
| traps for 168 | economics of 1643 | in Czechoslovakia 1688 |
| dispersal of 2431, 2433 | genetic 2268 | on game, book 2261 |
| Getah viruses in, in Kyushu 3072 | models of 1353 | on man |
| | | |
| gonotrophic cycle in 3073 | growth regulators for 112, 117, 1857 | hypersensitivity to 546 |
| herbicides in, toxicity of 692 | in California 84, 3065 | bibliography 820 |
| in India 2773 | in cemeteries 117 | in Czechoslovakia 2119 |
| in Japan 168, 724, 2433, 3071, 3072, | in France 170, 171 | not affecting lung functions 2114 |
| 3073 | in West Germany 472, 3068 | on pigeon, in South Africa 1575 |
| | | |
| in Malagasy Republic 2408 | insecticides for 117, 138, 145, 304, | on rabbit, effects of host activity on 130 |
| in Pakistan 1354, 1920 | 464, 1465, 1582, 1857, 2038, 2398 | outbreaks of 471 |
| in Philippines 1321 | integrated 2389, 2390, 2391, 2393 | predators of 2126 |
| in South Korea 2431 | funding of 2392 | preyed on by |
| in rice-fields | lecithin monolayers for 1560 | Aphanius dispar 1339 |
| | | |
| dispersal of 2433 | non-target effects of 163, 175, 302, | Gambusia affinis 1339, 1862 |
| distribution pattern of 3071 | 1588 | Hemiptera 1567 |
| in Kyushu 168 | removing breeding places for 117 | Lepomis spp. 1313 |
| in swamps, distribution pattern of 3071 | repellents for 786, 981 | Plaeidae 1561 |
| Japanese encephalitis, virus in, | evaluating of 802 | Salticidae 293 |
| overwintering of 724 | thresholds for 2391 | Sphaerodema urinator, in Egypt 1039 |
| | | |
| life tables for, geographical variation in | traps for 466 | rearing of, apparatus for 1621 |
| characteristics of 1091 | use of computers in 805 | Romanomermis culicivorax in 1305 |
| mating competitiveness in | water management for 1874, 1875, | Saint Louis encephalitis, virus in, in Peru |
| effects of chromosome aberrations on | 2397 | 1351 |
| 1920, 2752 | dengue virus in, xenodiagnosis of 2788 | sampling of 1878, 2786 |
| | eggs of, separating from debris of 156 | taxonomy of 783 |
| effects of handling on 2752 | | |
| effects of marking on 2752 | feeding index for 507 | characters for 352 |
| mating in 336 | Filarioidea in | traps for 552, 1612, 2795, 2797 |
| on man, in Andhra Pradesh 2773 | avoidance of immune responses by | visual responses to 3059 |
| pathogens of, in Pakistan 1354 | 2306 | Venezuelan equine encephalitis, virus in, |
| predators of, in Pakistan 1354 | infectivity of, genetics of 1817 | in Peru 1351 |
| resting places of 3071 | transmission of 2950 | |
| | | weather as affecting 2957 |
| West Nile virus in | filter-feeding in 2300 | culicifacies, Anopheles |
| replication of 3095 | Finnish entomologists working on 2727 | Culicimermis |
| transmission of 2798 | flight sounds of 1298 | in |
| Culex tritaeniorhynchus summorosus | Guama viruses in, in Peru 1351 | Aedes dorsalis, in Manitoba 2404 |
| | | |
| descriptions of 174 | hosts of, detecting of 793 | A. vexans, in Manitoba 2404 |
| development in, effects of temperature on | identifying of, review 830 | Culicinae |
| 790 | in Afghanistan 2993 | control of, insecticides for 696 |
| in Japan 790 | in Alabama 510 | on man, in Italy 969 |
| in Philippines 1312 | in Amami Islands 713 | taxonomy of 2100 |
| in Taiwan 174 | in Brazil 350, 1050 | characters for 352 |
| | | |
| in rice-fields, in Japan 790 | in Cameroon 1074, 2729 | Culicini, taxonomy of 2100 |
| larvae of, effects of crowding on 2091 | in Chile 350 | Culicinomyces |
| life-tables for 790 | in Comoro Islands 2690 | in |
| on man, in Philippines 1312 | in Dominican Republic 2047, 2086 | Aedes rupestris, in New South Wales |
| population dynamics of 790 | in Ecuador 350 | 1093 |
| | | |
| Culex univittatus | in Ethiopia 172 | Anopheles hilli, pathogenicity of 1093 |
| in Portugal 1639 | in Fennoscandia 1086 | Austrosimulium spp., infectivity of |
| in South Africa 1575 | in Finland 1916 | 511 |
| on pigeon, in South Africa 1575 | in India 2038 | Culex quinquefasciatus, infection route |
| Sindbis virus in, transmission of 1575 | in Indonesia 2425 | of 506 |
| | in Israel 2992 | |
| West Nile virus in, transmission of 1575 | | Culicoides |
| Culex univittatus neavei (see C. neavei) | in Japan 2100 | anesthetics for, carbon dioxide as 2441 |

| Culicoides contd. | Culicoides fascipennis contd. | Culicoides mohave |
|--|---|---|
| arboviruses in in Canada 2964 | seasonal abundance of 181 Culicoides furens | descriptions of 2442 distribution of 2442 |
| in Kenya 2443 | control of, repellents for 2440 | taxonomy of, Culicoides hoguei |
| in South Africa 3105 | flight activity in 1359 | misidentified as, in Mexico 2442 |
| bluetongue virus in | hosts of 1358 | Culicoides molestus |
| in Northern Territory 358 | in Puerto Rico 2440 | habitats of 3109 |
| transmission of 123 Congo virus in 993 | in USA 1358, 1359 in salt marshes, in North Carolina 1358, | in Australia 3109 in canals, in Queensland 3109 |
| control of, insecticides for 971 | 1359 | Culicoides montanus |
| dispersal of, by wind 2444 | on man, in Puerto Rico 2440 | in USSR 181 |
| fecundity in 2439 | prey of, rearing of 1657 | seasonal abundance of 181 |
| host preferences in 3107 relation of antennal and palpal sense | Culicoides grahamii | Culicoides nivosus in Nigeria 3106 |
| organs and 1357 | feeding behaviour in 2745 in Gabon 2745, 3103 | physiological age of 3106 |
| in Cayman Islands 1658 | on man, in Gabon 2745, 3103 | Culicoides nubeculosus |
| in China 2445 in Dominican Republic 2047, 2086 | population dynamics of 3103 | breeding places of 2807 Eubenangee virus in, replication of 2995 |
| in Israel 2992 | Culicoides guttipennis | in USSR 2807 |
| in Nansei Islands 715 | feeding behaviour in 833 in USA 833 | Israel turkey encephalitis, virus in, not |
| in USSR 554 in dung, in Netherlands 2503 | on man, in Wisconsin 833 | transmitted 182 Onchocerca cervicalis in, development of |
| larvae of 554 | Culicoides hildae | 849 |
| on goat | sp. nov., description of 2811 | O. lienalis in, development of 2133 |
| in Cyprus 359 | in South Africa 2811 | O. volvulus in, not developing 2133 |
| in England 3107 on horse, hypersensitivity to 357 | Sp. nov., description of 2442 | sex pheromone of 1659 Culicoides odibilis |
| on man | in Mexico 2442 | breeding places of 2807 |
| in England 3107 | in USA 2442 | in USSR 2807 |
| in Italy 969, 971 in Zaïre 989 | on man, in Mexico 2442 Culicoides hollensis | Culicoides okumensis, taxonomy of, synonym of C. actoni 715 |
| on sheep, in Cyprus 359 | control of, repellents for 2440, 2808 | Culicoides orientalis |
| physiological age of 3106 | Dipetalonema caudispina in, development | descriptions of 3108 |
| preyed on by, Holcocephala fusca, in | of 356 | in India 3108 |
| Virginia 1553 viruses in, in Nigeria 857 | D. gracile in, development of 356 flight activity in 1359 | in Malaysia 3108 in Papua New Guinea 3108 |
| Culicoides actoni | hosts of 1358 | taxonomy of, Culicoides maculatus |
| in Japan 715 | in USA 1358, 1359, 2440, 2808 | misidentified as, in Java 3108 |
| taxonomy of, Culicoides okumensis as synonym of 715 | in salt marshes, in North Carolina 1358, | Culicoides pallidipennis (see C. imicola) Culicoides pamiricus, in USSR 181 |
| Culicoides alazanicus | on man, in South Carolina 2440, 2808 | Culicoides paraensis |
| breeding places of 2807 | Culicoides homochrous | feeding behaviour in 833 |
| in USSR 2807 | breeding places of 2807 | in USA 833 |
| Culicoides albicans breeding places of 2807 | in USSR 2807 Culicoides imicola | on man, in Wisconsin 833 Culicoides paucidentatus, taxonomy of, |
| in USSR 2807 | arboviruses in, in South Africa 3105 | synonym of C. longidens 715 |
| Culicoides arakawai, fowl pox, virus in, | in Nigeria 857 | Culicoides phlebotomus |
| transmission of 3104 Culicoides austeni, in Nigeria 857 | in South Africa 3105 Culicoides indistinctus, taxonomy of, | in Trinidad and Tobago 505 Mansonella ozzardi in, transmission of |
| Culicoides austropalpalis, rearing of, | characters distinguishing C. calloti and | 505 |
| techniques for 1661 | 2810 | on man, in Trinidad 505 |
| Culicoides bajensis | Culicoides insignis, in Dominican Republic | Culicoides punctatus |
| sp. nov., description of 2442 in Mexico 2442 | 2047 Culicoides krameri, in Nigeria 857 | breeding places of 2807 in USSR 2807 |
| Culicoides barbosai | Culicoides lailae | Culicoides puncticollis |
| control of, repellents for 2440 | in USSR 181 | breeding places of 2807 |
| in USA 2440 on man, in Florida 2440 | taxonomy of, characters distinguishing C. calloti and 2810 | in USSR 2807 Culicoides reconditus |
| Culicoides belkini | Culicoides longidens | breeding places of 2807 |
| biology of 1097 | in Japan 715 | in USSR 2807 |
| breeding places of 1098 control of | taxonomy of, Culicoides paucidentatus as synonym of 715 | Culicoides riethi breeding places of 2807 |
| eliminating breeding places for 1097, | Culicoides maculatus | in USSR 2807 |
| 1098 | in Indonesia 3108 | Culicoides salinarius |
| insecticides for 1098 | in Japan 715 | breeding places of 2807 |
| in Cook Islands 1097, 1098 in Fiji 1097 | taxonomy of Culicoides sigaensis as synonym of | in USSR 2807 Culicoides schultzei |
| in Society Islands 1097, 1098 | 715 | in Kenya 2443 |
| in Tuamotu Islands 1097, 1098 | misidentified as <i>C. orientalis</i> , in Java | in Nigeria 857 |
| on man, bites by 1097 Culicoides brevitarsis | 3108 Culicoides manchuriensis | Culicoides sejfadinei in USSR 181 |
| feeding behaviour in 553 | breeding places of 2807 | seasonal abundance of 181 |
| in Australia 553 | in USSR 2807 | Culicoides sigaensis, taxonomy of, synonym |
| on cattle, in Queensland 553 rearing of, techniques for 1661 | Culicoides maritimus breeding places of 2807 | of C. maculatus 715 Culicoides simulator |
| Culicoides bundyensis, rearing of, techniques | in USSR 2807 | breeding places of 2807 |
| for 1661 | Culicoides marksi | in USSR 2807 |
| Culicoides calloti | Eubenangee virus in 2995 | Culicoides subfascipennis |
| sp. nov., description of 2810 in Morocco 2810 | Onchocerca gibsoni in, transmission of 2132 | breeding places of 2807 in USSR 2807 |
| Culicoides circumscriptus | rearing of, techniques for 1661 | Culicoides subimmaculatus, in Australia |
| breeding places of 2807 | Culicoides melleus | 3109 |
| in USSR 2807 Culicoides crepuscularis, Chandlerella | prey of, rearing of 1657 spermatozoa in, activity of 555 | Culicoides turanicus, in USSR 181 Culicoides ustinovi |
| quiscali in 475 | Culicoides milnei | breeding places of 2807 |
| Culicoides dycei, rearing of, techniques for | group of | in USSR 2807 |
| 1661 Culicoides fegineus | in Nigeria 3106 | Culicoides variipennis |
| Culicoides fagineus in Spain 1484 | physiological age of 3106 Culicoides mississippiensis | bluetongue virus in in Colorado 2809 |
| in tree holes, in Spain 1484 | control of, repellents for 2440, 2808 | transmission of 123, 2809 |
| Culicoides fascipennis | in USA 2440, 2808 | epizootic hemorrhagic disease of deer, |
| breeding places of 2807 in USSR 181, 2807 | on man, in Florida 2440, 2808 prey of, rearing of 1657 | Eubenangee virus in, replication of 2995 |

Cyclopropanecarboxylic acid, 3-(2.2-

dibromoethenyl)-2,2-dimethyl-

Culicoides variipennis contd. in Canada 123 in USA 1660, 2809 Israel turkey encephalitis, virus in, not transmitted 182 oogenesis in, pigmentation associated with 834 traps for 1660 Culicoides vexans breeding places of 2807 in USSR 2807 Culiseta arboviruses in, in California 1851 California viruses in, transovarial transmission of 2969 control of, insecticides for 971 in California 85, 86 in Finland 1916 in France 177 in Maritime Provinces 1617 in Switzerland 2751 in USSR 9 in West Germany 458 in irrigated pastures, in California 96 in rock pools, in Utah on man, in Italy 971 traps for 541 Culiseta alaskaensis, in USA 814 Culiseta annulata control of, insecticides for 1642 enzymes in 2762 in France 1340 in Italy 2762 in USA 1302 in Yugoslavia 446 mouthparts in 162 myxoma virus in, in France 1340 nervous system in 2105 Culiseta bergrothi, in Finland 1916 Culiseta incidens control of biological 1604 growth regulators for 1859, 2744 in USA 1859 in flood-control channels, in California locomotion in, rhythm of 543 Wolbachieae in, not found 2803 Culiseta inornata biology of 93
Cache Valley virus in, in Saskatchewan 1089 California encephalitis, virus in, transmission of 2962
Coelomomyces psorophorae in encystment of 354 encystment of 334 encystment of zygotes of 2420 penetration of cuticle by 2428 control of biological 1604 insecticides for 116, 1300 in Canada 152, 808, 1089 in USA 93, 96, 116, 1300 in irrigated pastures, in California 96 Northway virus in, in Arctic Canada 808 overwintering in 152 seasonal abundance of 93 showshoe hare virus in, in Arctic Canada western equine encephalitis, virus in, transmission of 152 enzymes in 2762 in Italy 2762 Culiseta longiareolata chromosomes in 2094 enzymes in 2762 in Italy 2762 in Portugal 1640 Culiseta litorea Culiseta melanura eastern equine encephalitis, virus in, in Connecticut 1896 Connecticut 1896
Flanders virus in, in Connecticut 1898
flight activity in 1331
in USA 1331, 1831, 1896, 1898, 3059
in swamps, in New York 1831
parous rate in 1831
traps for 1331
visual responses to 3059 visual responses to 3059 vector potential of 1831

Culiseta melanura contd. western equine encephalitis, virus in, in Connecticut 1896 Culiseta morsitans, control of, growth regulators for 2751 Culiseta morsitans dyari, in USA 814 Culiseta silvestris minnesotae, in USA (Alaska) 814 Culiseta subochrea, in Portugal 2089 culminata, Oxysarcodexia culminiforceps, Oxysarcodexia (see O. culminata) cunicularis, Xenopsylla cuniculi, Psoroptes cuniculi, Spilopsyllus Cunn dukhunensis, Pariodontis riggenbachi on, in China 2343 cuprina, Lucilia (Phaenicia) cuprina, Phaenicia (see Lucilia cuprina) Cupselidae, in livestock farms, in Bulgaria curviforceps, Musca domestica cuspidatus, Rhipicephalus Cuterebra control of, insecticides for 862, 3245 on man, in Kentucky 1678 Cuterebra apicalis in Brazil 205 on Calomys callosus, in Brazil 205 on Oryzomys eliurus, in Brazil 205 Cuterebra buccata in USA 2282 on Sylvilagus floridanus, in Virginia 2282 Cuterebra fontinella control of, insecticides for 18 hosts of 1389 in USA 1389, 1675 on Liomys irroratus, in Texas 1389 on Peromyscus leucopus effects on reproduction of 1675 in Texas 1389 susceptibility to 375 Cuterebra tenebrosa host specificity in in USA 1390 1390 on Neotoma cinerea, in Washington 1390 seasonal abundance of 1390 Cuterebridae feeding behaviour in 610 hosts of 610 parasitic, book 2950

Cyanamide, calcium salt (1:1), against, Hypoderma spp., in pastures 575 cyanella, Dasyphora (see Dasypyrellia cyanella) cyanella, Dasypyrellia (Dasyphora) Cyanide in Musca domestica, inhibiting secretion by Malpighian tubules 3178 Trypanosoma theileri, inhibiting oxygen uptake 1388 Cyanomethemoglobins, hemoglobins in Stomoxys calcitrans blood-meals measured after conversion to 218 cyclaspis, Macronyssus
Cyclic AMP (see Adenosine, cyclic 3',5'-(hydrogen phosphate))
Cyclic GMP (see Guanosine, cyclic 3',5'-(hydrogen phosphate)) 1,6-Cyclodecadiene, 1-methyl-5-methylene-8-(1-methylethyl)-, [S-(E,E)]-, Periplaneta americana electroantennogram responses to 1269 Cyclohexane, 1,2,3,4,5,6-hexachloro- (see HCH) $(1\alpha,2\alpha,3\beta,4\alpha,5\alpha,6\beta)$ - (see Lindane) Cycloheximide against, Catenaria anguillulae, in Romanomermis 105
in Calliphora vicina, inhibiting fat-body
acid phosphatase 2509
Cyclopropanecarboxylic acid, 3-(cyclopentylidenemethyl)-2,2-dimethyl-, 5-(phenylmethyl)-3-furanyl]methyl ester, (1R-trans)- (see Bioethanomethrin)

cyano(3-phenoxyphenyl)methyl ester, [1R- $[1\alpha(\hat{S}^*),3\alpha]]$ against Aedes nigromaculis, in irrigated pastures 115 Glossina palpalis 572, 1119 G. nigrofusca 1120 G. pallicera 1120 Boophilus microplus, on cattle 1199
Musca domestica 1225
Cimex lectularius 1225 Blattella germanica Aedes spp. 1225 Glossina morsitans 1386 G. palpalis 1386
G. tachinoides 1386
Anopheles spp., in dwellings 1564
Aedes cantans 1642 A. sticticus 1642 A. vexans 1642 Culex molestus C. pipiens 1642 Culiseta annulata Glossina fuscipes G. palpalis 2465 2465 G. palpalis 2465
G. tachinoides 2465
Amblyomma hebraeum 2554
A. variegatum 2554
Rhipicephalus appendiculatus 2554
Glossina palpalis 2826, 2827
G. spp. 2831, 2833
G. palpalis 2824 G. spp. 2831, 28 G. palpalis 2834 G. spp. 3128 in insects, metabolism of 1466 in plants, metabolism of 1466 in rat, effects of 435 in soil, metabolism of 1466 in vertebrates, metabolism of 1466 (3-phenoxyphenyl)methyl ester, (1*R-cis*)-in *Periplaneta americana* penetration of cuticle by 751 sites of action of 751 (3-phenoxyphenyl)methyl ester, (1S-cis)in Periplaneta americana penetration of cuticle by not toxic 751 Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethylcyano(3-phenoxyphenyl)methyl ester (see Cypermethrin) (3-phenoxyphenyl)methyl ester (see Permethrin) (3-phenoxyphenyl)methyl ester, (1RS-trans)- (see Transpermethrin) Cyclopropanecarboxylic acid, 3-[(dihydro-2oxo-3(2H)-thienylidene)methyl]-2,2dimethyl-1-methylheptyl ester, photoisomerisation of 953 of 953
[5-(phenylmethyl)-3-furanyl]methyl ester,
[1R-[1α,3α(E)]]photochemistry of 953
in mouse, toxicity of 953
against, Musca domestica 953

Cyclopropanecarboxylic acid, 2,2-dimethyl3-(2-methyl-1-propenyl)- (see Chrysanthemic acid) (1,3,4,5,6,7-hexahydro-1,3-dioxo-2Hisoindol-2-yl)methyl ester (see Tetramethrin) 2-methyl-4-oxo-3-(2-propenyl)-2-cyclopenten-1-yl ester (see Allethrin) (3-phenoxyphenyl)methyl ester (see Phenothrin) [5-(phenylmethyl)-3-furanyl]methyl ester (see Resmethrin) (see Resmethin)
[5-(phenylmethyl)-3-furanyl]methyl ester,
(1R-cis)- (see Cismethrin)
[5-(phenylmethyl)-3-furanyl]methyl ester,
(1R-trans)- (see Bioresmethrin)
Cyclopropanecarboxylic acid, 2-[6-(3,3dimethyloxiranyl)-4-methyl-3-hexenyl]-2methyl-, methyl ester, against, Musca domestica 2257 Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(pentyloxy)-, cyano(3-phenoxyphenyl)methyl ester, against, Musca domestica 2937

| Subject Index | | 473 |
|---|--|--|
| Cyclopropanecarboxylic acid, 2-(8-ethoxy- | Cypermethrin contd. | Damalinia bovis contd. |
| 4,8-dimethyl-3,7-nonadienyl)-2-methyl-, 1-methylethyl ester, in <i>Musca domestica</i> , | in plants, metabolism of 1466 in soil, degradation of 1466 | in Australia 2702 in Irish Republic 3015 |
| inhibiting ovarian development 2865 | in Spodoptera littoralis | in Poland 758 |
| Cyclopropanecarboxylic acid, 2-(8-ethoxy- | metabolism of 487 | on cattle |
| 4,8-dimethyl-3-nonenyl)-2-methyl- ethyl ester, against, Musca domestica | penetration of 487 in vertebrates, metabolism of 1466 | effects on blood of 3015 in New South Wales 2702 |
| 2257 | insecticidal activity of enantiomers of | losses caused by 1771 |
| methyl ester, against, Musca domestica | 1465 | not affecting growth rate 3015 |
| 2257 1-methylethyl ester, against, Musca | resistance to, in, Musca domestica, in West Germany 2166, 2504 | role in skin mycosis of 758 Damalinia crassipes |
| domestica 2257 | with chlorfenvinphos, against, Lucilia | in Spain 148Î |
| Cyclopropanecarboxylic acid, 2-(8-methoxy-4,8-dimethyl-3-nonenyl)-2-methyl-, | cuprina, on sheep 607 cypriotica, Sergentomyia fallax | on Capra pyrenaica, in Spain 1481 Damalinia fulva |
| methyl ester, against, Musca domestica | cyprium, Amblyomma | sp. nov., description of (in Bovicola) |
| 2257 Cyclopropanecarboxylic acid, 3-(3-methoxy- | Cyprus bluetongue in 2444 | 2065 in USA 2065 |
| 2-methyl-3-oxo-1-propenyl)-2,2-dimethyl- | Culicoides spp. in, on sheep 359 | on Ammotragus lervia, in Texas 2065 |
| (see Pyrethric acid) Cyclopropanecarboxylic acid, 2,2,3,3- | L-Cysteine , in <i>Aedes aegypti</i> , dependence of formyltetrahydrofolate synthetase activity | Damalinia multispinosa |
| tetramethyl-, cyano(3- | on 1051 | sp. nov., description of (in <i>Bovicola</i>) 2065 |
| phenoxyphenyl)methyl ester (see | Cythion (see Malathion) 5' Cytidylia acid in Cyley pinions diet | in Nepal 2065 |
| Fenpropathrin) Cyclops | 5'-Cytidylic acid, in Culex pipiens diet, requirement for 133 | on Pseudois nayaur, in Nepal 2065 Damalinia ovis |
| breeding places of 1224 | Cytochrome oxidase (see Oxidase, | in New Zealand 599 |
| control of pesticides for 1803 | cytochrome) Cytochrome P-450 | on sheep, in New Zealand 599 Damaliscus dorcas, Kirkioestrus minutus on, |
| water purification for 1803 | in Musca domestica, relation of insecticide | in South Africa 3139 |
| Dracunculus medinensis in in Mali 1224 | resistance and 2507 in <i>Phormia regina</i> 2508 | damasei, Uranotaenia dammini, Ixodes |
| transmission of 1803 | in Sarcophaga bullata 2508 | damnosum, Simulium |
| insect growth regulators in, residues of 800 | Czechoslovakia Aedes spp. in, in floodplain forests 3089 | Dams Anopheles and malaria as affected by |
| insecticides in, toxicity of 803 | A. cantans in 803 | construction of 2799 |
| Cyclops vernalis (see Acanthocyclops vernalis) | A. rossicus in 1568 A. vexans in, viruses in 2119 | arthropod-borne diseases as affected by 2729 |
| Cyclorrhapha, taxonomy of, characters for, | Culicidae in | vector breeding places as affected by |
| effects of temperature on 894 | on birds 2119 | 1074 |
| Cydistomyia, in Sarawak 2888 Cyhexatin (tricyclohexylhydroxystannane) | on cattle 981, 1688 on man 2119 | Daphnia insect growth regulators in, residues of |
| against Parentee one | viruses in 126 | 800 inserticides in toxicity of 803 |
| Psoroptes spp. on cattle 2239 | Dermacentor reticulatus in 2561 Dermatophagoides farinae in, in house | insecticides in, toxicity of 803 preyed on by, <i>Dugesia tigrina</i> 2382 |
| on sheep 2239 | dust 2564 | darlingi, Anopheles |
| P. ovis on cattle 1452 | D. pteronyssinus in, in house dust 2564 Echinonyssus lukoschusi in, on Talpa | Darna trima, RNA virus in, human antibodies to 1804 |
| on sheep 2555 | 2235 | Dasyhelea |
| in Musca domestica, inhibition of ATPase by 1324 | Haemogamasus nidi in, bacteria in 1792 Hypoderma bovis in, on cattle 863 | in Cayman Islands 1658 in Spain 1483 |
| cymatophorus, Tabanus | Hystrichopsylla spp. in 2084 | Dasyhelea bajensis |
| Cynipoidea, book 2994 cynipsea, Sepsis | Ixodes ricinus in, in forests 257 Laelaps hilaris in, bacteria in 1792 | in Mexico 2442 in USA 2442 |
| Cynomya mortuorum | mites in, in house dust 1456 | Dasyhelea bicrenata, in Spain 1483 |
| in Finland 2881 on Lepus timidus, in Finland 2881 | Sarcoptes scabiei in, on man 1444 Simulium ornatum in 3126 | Dasyhelea dufouri in Spain 1484 |
| Cynomyopsis cadaverina | S. spinosum in 3126 | in tree holes, in Spain 1484 |
| in Canada 217 in prehistoric graves, in New Brunswick | Siphonaptera in on mammals 1845 | Dasyhelea sonorensis in Mexico 2442 |
| 217 | on small mammals 1032 | in USA 2442 |
| Cynomys leucurus Phthiraptera on, in USA 501 | Tabanidae in, on cattle 981, 1688 dacenkoi, Catallagia | Dasyphora cyanella (see Dasypyrellia cyanella) |
| Siphonaptera on, in USA 501 | dacotensis, Cnephia | Dasypus novemcinctus, Trypanosoma cruzi |
| Cynomys ludovicianus Phthiraptera on, in USA 501 | Dactinomycin in Culex pipiens cell lines, effects on | in, in Brazil 2078 Dasypyrellia cyanella |
| Siphonaptera on, in USA 501 | growth and respiration of 1043 | biology of 1141 |
| cynotis, Otodectes cynthia, Philosamia (see Samia cynthia) | in Periplaneta americana effects on cholesterol of 320 | in UK 1141 daubentoni, Pteracarus minutus |
| cynthia, Samia (Philosamia) | effects on nucleic acids of 320 | dauricus, Haemogamasus |
| Cypermethrin (cyano(3- phenoxyphenyl)methyl 3-(2,2- | inhibition of protein and nucleic acid synthesis by 2421 | <pre>p,p'-DDE (1,1'-(dichloroethenylidene)bis[4- chlorobenzene])</pre> |
| dichloroethenyl)-2,2- | with dimethoate | in Aedes aegypti, DDT metabolite 1562, |
| dimethylcyclopropanecarboxylate) | in Periplaneta americana | 1563 |
| against Amblyomma hebraeum 2554 | effects on cholesterol of 320 effects on nucleic acids of 320 | DDT (mixture of isomers in which p,p'-DDT predominates) |
| A. variegatum 2554 | Dairies | against 1225 |
| Boophilus microplus, on cattle 1199 Glossina morsitans 1386 | fly control in, traps for 888 Stomoxys calcitrans in, in Florida 888 | Aedes spp. 1225 A. aegypti 1562 |
| G. palpalis 1386 | Daisy, ox-eye (see Chrysanthemum | Anopheles atroparvus 1242, 1558 |
| G. tachinoides 1386 Haematobia spp., on cattle 2166 | leucanthemum) Dalf (see Parathion-methyl) | A. balabacensis 2789 A. campestris, in dwellings 2806 |
| Musca autumnalis, on cattle 1394, | dalgleishi, Geomydoecus | A. culicifacies 1912 |
| 2166 M. domestica 2504 | dalzieli, Aedes Damalinia | A. funestus 1046 A. gambiae 1046 |
| in cattle sheds 2516 | on Ammotragus lervia, in Texas 2264 | A. maculipennis 1558 |
| in pig sties 2516 on cattle 1394, 2166 | on domestic animals, in Spain 448 taxonomy of 448 | A. messeae 1558 A. minimus 723 |
| Rhipicephalus appendiculatus 2554 | Damalinia alpina | A. philippinensis 2426, 3101 |
| Stomoxys spp., on cattle 2166 S. calcitrans, on cattle 1394 | in Spain 1481 on <i>Capra pyrenaica</i> , in Spain 1481 | A. sinensis 723 Blattella germanica 1225, 1242 |
| in insects, metabolism of 1466 | Damalinia bovis | Cimex lectularius 1225 |
| in Periplaneta americana metabolism of 487 | biology of 1771 control of, insecticides for 2702 | Glossina spp. 1380 G. palpalis 572 |
| penetration of 487 | descriptions of 1771 | Haematobia irritans 1937 |

```
Dehydrogenase, glucose 6-phosphate
                                                                    DDT-dehydrochlorinase (see
DDT contd.
                                                                                                                                            in Anopheles stephensi, low levels of
   against contd.
                                                                         Dehydrochlorinase, DDT-)
      Haematopinus tuberculatus, on Asian
                                                                    p,p'-DDT (1,1'-(2,2,2-
                                                                                                                                                 2/135
                                                                         trichloroethylidene)bis[4-chlorobenzene])
                                                                                                                                            inhibition by Leiurus quinquestriatus
           buffalo 61
      Musca domestica 1225, 1242, 2668,
                                                                        in Aedes aegypti, selection for resistance
                                                                                                                                                 venom of 1220
           2852, 2869
                                                                            to 1563
                                                                                                                                         Dehydrogenase, glutamate
      Phlebotomus argentipes 183
P. papatasi 183, 558
                                                                     DDVP (see Dichlorvos)
                                                                                                                                            in frog, effects of Heterometrus fulvipes
                                                                                                                                                  venom on 686
                                                                     Death
      Psoroptes equi, on Asian buffalo 270
Rhodnius prolixus, in dwellings 74
                                                                                                                                            in Musca domestica, activity pattern of
                                                                        in cattle
                                                                           caused by Boophilus microplus 1761 caused by Simuliidae 1929
                                                                                                                                                  1153
                                                                                                                                         Dehydrogenase, glycerol phosphate
      Sarcoptes scabiei
                                                                           caused by Simulium 3123
                                                                                                                                            in Aedes caspius, genetics of 777
         on Asian buffalo 270
                                                                                                                                            in Anopheles aquasalis, genetics of 1913
         on camel 270
                                                                                                                                            in Cochliomyia hominivorax, effects of rearing on 2275
      Triatoma dimidiata, in dwellings 74
                                                                           caused by Armillifer grandis 2664
      Triatominae 1278
                                                                           caused by Chrysomya bezziana 884
         in dwellings 64
                                                                           caused by wasp sting 242
                                                                                                                                            in Ixodes ricinus, polymorphism of 2214
                                                                     in mule, caused by Simuliidae 1929
2,4-Decadienamide, N-(2-methylpropyl)-
      Xenopsylla brasiliensis 980
                                                                                                                                            isoenzymes
   environmental health criteria for
                                                                                                                                               in Aedes polynesiensis 355
                                                  1230
  in Acheta domesticus, effects on
melanisation of 2062
                                                                        (2E.4E)-
                                                                                                                                               in Cochliomvia hominivorax, for
                                                                    against, Aedes triseriatus 2790
in Achillea millefolium 2790
Decamethonium (N,N,N,N',N',N'-
hexamethyl-1,10-decanediaminium)
                                                                                                                                                    assessing quality of mass-reared flies
                                                                                                                                                    3146
   in Anopheles, testing susceptibility to
                                                                                                                                         Dehydrogenase, hydroxybutyrate in Anopheles beklemishevi, genetics of
        149
   in Anopheles atroparvus
      effects on feeding behaviour of 2107
                                                                        in Periplaneta americana, blocking
                                                                                                                                                 2104
      escape responses to 1056
                                                                            trochanteral hairplate afferents
                                                                                                                                            in Anopheles messeae, genetics of 2104
   in Asian buffalo, effects on skin of 3249
                                                                     Decamethrin (see Cyclopropanecarboxylic
                                                                                                                                         Dehydrogenase, lactate
                                                                                                                                            in dog serum, effects of Buthus tamulus
venom on 3236
   in fowl, effects on toxicity of malathion of
                                                                         acid, 3-(2,2-dibromoethenyl)-2,2-
                                                                    acit, 3-(2,2-dioromoetnenyl)-2,2-dimethyl-, cyano(3-phenoxyphenyl)methyl ester, [1R-[1\alpha(S^*),3\alpha]]-)

Decanamide, N-(2-methylpropyl)-, against,
                                                                                                                                            in Heterometrus fulvipes heart, sex differences in 950
  in meat, residues of 2942
in Musca domestica
absorption of 628
                                                                                                                                            isoenzymes
in Musca domestica
      ATPase inhibition by 2885
                                                                         Aedes triseriatus 2790
                                                                                                                                                  polymorphism in 788 variation in 1146, 1147
                                                                    Aedes Ursertatus 2/70
Decanamine, N,N-dimethyl-, against,
Psoroptes cuniculi, on rabbit 1218
1,10-Decanediaminium, N,N,N,N',N',N'.
      effects of cuticular lipids on absorption
           of 583
      effects on labellar receptors of 1128,
                                                                                                                                         Dehydrogenase, malate
                                                                                                                                            in Anopheles aquasalis, genetics of 1913 isoenzymes, in Hybomitra, use in taxonomy of 223
           1129
      effects on nervous system of 2843 inhibition of ATPase by 1324
                                                                         hexamethyl- (see Decamethonium)
                                                                     Decanoic acid
  in Periplaneta americana, effects on
melanisation of 2062
in rivers, residues of 968
                                                                        in Aedes triseriatus, toxicity of 522
                                                                                                                                         Dehydrogenase, octanol
in Anopheles aquasalis, genetics of
in Glossina morsitans, inheritance of
                                                                        in Cladophora glomerata 522
                                                                                                                                                                                              1913
                                                                     1-Decanol
                                                                        in Lucilia sericata, toxicity of 399 in Phormia terraenovae
                                                                                                                                                  1378
   resistance to, in
      Aedes aegypti, mechanisms of 1562,
                                                                                                                                         Dehydrogenase, phosphogluconate
           1563
                                                                           leg paralysis caused by
                                                                                                                                            in Musca domestica
      Anopheles spp. 2364
in Angola 1641
in Romania 1322
                                                                                                                                               genetics of 2495
phenotypes of 2726
                                                                    toxicity of 399
decemlineata, Leptinotarsa
2-Decenamide, N-(2-methylpropyl)-, (E)-,
                             2364
                                                                           toxicity of 399
                                                                                                                                         Dehydrogenase, 1-pyrroline, in Phormia
                                                                    against, Aedes triseriatus 2790

Decis (see Cyclopropanecarboxylic acid, 3-(2,2-dibromoethenyl)-2,2-dimethyl-, cyano(3-phenoxyphenyl)methyl ester, [1R-[1α(S'),3α]]-)
                                                                                                                                              regina flight muscles, not interfering with proline shuttle 1948
      A. aconitus, in Indonesia 1892
      A. albimanus, in Americas 2286
A. atroparvus 2107
                                                                                                                                         Dehydrogenase, succinate
in frog, effects of Heterometrus fulvipes
venom on 686
      A. culicifacies, in Karnataka 1908
      A. darlingi
                                                                                                                                            in Heterometrus fulvipes heart, sex differences in 950
                                                                    decoloratus, Boophilus
decorum, Simulium
decorus, Chironomus
         behavioural 15
in Brazil 1057
                            1572
                                                                                                                                         Dehydrogenase, xanthine, in Aldrichina grahami, regulation of activity of 382
      A. maculipennis, in Moldavia 155
A. nuneztovari, behavioural 1572
                                                                     decumani, Myonyssus
      A. philippinensis
                                                                                                                                         Deinocerites cancer
                                                                                                                                            autogeny in 1095
flight activity in 13.
in USA 1095, 1331
traps for 1331
         in Bangladesh
in India 3101
                               2426
                                                                        arthropod parasites of, in New Zealand
                                                                                                                                                                     1331
      A. pseudopunctipennis, in Americas 2286
                                                                        Ixodes dammini on, in Massachusetts 2575
                                                                                                                                         Delichon urbica, Crataerina hirundinis in nests of, in Morocco 883
      A. sacharovi
in Azerbaijan
in Iraq 2757
                                                                     Lipoptena spp. on, in Japan 2858
Deer, black-tailed (see Odocoileus
                             2108
                                                                                                                                         deliense, Leptotrombidium
Delnav (see Dioxathion)
delpontei, Triatoma
                                                                         hemionus)
                                                                     Deer, mule (see Odocoileus hemionus)
Deer, red (see Cervus elaphus)
      Blattella germanica, in South Korea
      Boophilus microplus, and cross-
resistance 2550
                                                                     Deer, white-tailed (see Odocoileus
                                                                                                                                         deltaorinoquensis, Anopheles (see A.
                                                                                                                                              aquasalis)
                                                                     Deet (N,N-diethyl-3-methylbenzamide)
evaporation of, from human skin 29
      Culex gelidus, in Karnataka 2771
                                                                                                                                         Demodex
          quinquefasciatus, in Brazil 1572
                                                                                                                                            control of, acaricides for 1448
      Musca domestica
                                                                        in lightweight net jackets 2440
                                                                                                                                            on cattle
      and cross-resistance 212
in West Germany 3167
Pediculus humanus 63
                                                                        repellent for
                                                                                                                                               in Mexico 2241
                                                                           Aedes aegypti 2741, 2742
Culicidae, on cattle 981, 1688
Culicoides spp., on man 2440
C. hollensis, on man 2808
                                                                                                                                               in Zambia 2462
                                                                                                                                            on Cricetomys gambianus, in Nigeria 3212
   synergists for
      chlorfenethol as 1562
                                                                                                                                            on dog, immune response to 2546 on horse, in Mexico 2241 on man, microhabitats of 475
                                                                           C. mississippiensis, on man
Prosimulium mixtum 1365
      Pimpinella anisum extracts as 2668
                                                                           Simulium venustum 1365
Tabanidae, on cattle 981, 1688
      in Italy 970
                                                                                                                                         Demodex caballi
      in USA, relation of incidence of Rocky
                                                                                                                                            biology of 277
           Mountain spotted fever and 1758
                                                                     DEF (see Phosphorotrithioic acid, S,S,S-
                                                                                                                                            descriptions of
                                                                                                                                                                 277
  with Bacillus thuringiensis, against,
Xenopsylla cheopis 2216
with chlorfenethol, in Musca domestica,
effects on labellar receptors of 1129
                                                                    tributyl ester)

defixa, Chrysomya

Dehydrochlorinase, DDT-
in Aedes aegypti, role in DDT resistance
of 1562
                                                                                                                                            on horse 277
                                                                                                                                            taxonomy of
                                                                                                                                               characters distinguishing D. cati and
DDT analogues
                                                                                                                                               characters distinguishing D. equi and
   biological degradation of 1473 in Periplaneta americana
                                                                        in Anopheles, role in DDT resistance of
                                                                                                                                                    277
                                                                            2364
                                                                                                                                         Demodex canis
                                                                                                                                            control of, acaricides for 940, 944, 1789, 2008, 2244 in France 2244 in India 2008, 2246
   ATPase inhibition by 2325
neurotoxicity of 2324
physical-chemical degradation of 1473
                                                                        in Musca domestica, chlorfenethol inhibition of 1129
```

Dehydrogenase, alcohol, isoenzymes, in

Hybomitra, use in taxonomy of

structure-activity relationships in

| Demodex canis contd. | Denmark | Dermacentor andersoni contd. |
|---|--|---|
| on dog | Aphodius rufipes in, in cattle dung 913, | population dynamics of, models of 2556 |
| diagnosing of 977 in France 2244 | 1421 applied entomology in 735 | Rickettsia rickettsi in, detecting of 921 |
| in Orissa 2008 | Cheyletiella yasguri in | sex pheromone of 2578 tick-borne encephalitis, virus in, |
| lesions caused by 2246 | on dog 1780 | replication of, effects of temperature |
| susceptibility to 944, 2652 seasonal abundance of 2008 | on man 1780 | on 2899 Dermacentor auratus |
| Demodex caprae | Ectobius lapponicus in, in dwellings 753 E. panzeri in, in dwellings 753 | in India 48, 265 |
| in India 1206, 2646, 3220 | mites in, in house dust 1781 | Kyasanur Forest disease |
| in Mexico 2241 on goat | Psoroptes ovis in, on sheep 2653 Sarcoptes scabiei in, on man 3226 | virus in in Karnataka 265 |
| damage to skin by 1206 | Simuliidae in 1931 | trans-stadial transmission of 264 |
| effects of weather on 3220 | denmarki, Ornithodoros | transmission of 264 |
| in Haryana 2646 in Mexico 2241 | dentata, Sergentomyia dentatus, Aedes | on Sus scrofa, in Assam 48 Dermacentor marginatus |
| seasonal abundance of 3220 | dentatus, Ixodes | control of, to control Q fever 2571 |
| Demodex cati, taxonomy of, characters distinguishing D. caballi and 277 | dentipes, Hydrotaea Deoxyribonucleic acids | Coxiella burneti in, transmission of 2571 distribution of 457 |
| Demodex equi, taxonomy of, characters | in Chrysomya megacephala ovarioles, | feeding in, effects of weather on 2954 |
| distinguishing D. caballi and 277 | effects of thiourea on 2527 | habitats of 917 |
| as reservoir of pathogens 974 | in mosquito cell lines, insect growth regulators inhibiting synthesis of | Haller's organ in 917 hygienic importance of 457 |
| control of, acaricides for 3224 | 2421 | in Hungary 1439 |
| in India 3224 in USA 676, 2021 | in mouse cell lines, insect growth regulators inhibiting synthesis of | in Spain 1486 in USSR 1187, 2000, 2219 |
| on man | 2033 | in West Germany 2571 |
| affecting eyes 1241 | in Musca domestica, developmental | on cattle, in Spain 1486 |
| granuloma caused by 676 pathology of 2021 | changes in 880, 1691 in <i>Periplaneta americana</i> | on rabbit, development of 1486 on rodents, in Ukraine 2219 |
| rosacea caused by 3224 | effects of dimethoate on 320 | on sheep |
| symptoms of 1793 | role of vitamin B ₁₂ in synthesis of | in Armenia 2000 |
| taxonomy of 277 Demodex folliculorum equi (see D. equi) | Depo-Medrol (see Methylprednisolone) | in West Germany 2571 oviposition in, effects of weather on 295 |
| Demodex ovis | Depression, in horse, caused by Epicauta | Raxdan virus in, in Armenia 2000 |
| in Switzerland 1776 on sheep, lesions caused by 1776 | 402 deqinensis, Amphipsylla tuta | Rickettsia slovaca in, in Hungary 1439 Salmonella spp. in, persistence of 2626 |
| Demodex phylloides | derlatkoi, Leptotrombidium | Dermacentor nigrolineatus |
| in Mexico 2241 | Dermacarus hypudaei | in USA 1202 |
| on pig, in Mexico 2241 Demos (see Dimethoate) | in Poland 1497 in USA 1424 | on Odocoileus virginianus, in Texas 120 Dermacentor nuttalli |
| Dendrolaelaps | on small mammals, in Poland 1497 | control of 2044 |
| in Falco sparverius nests, in New York 276 | on Synaptomys cooperi, in Indiana 1424 seasonal abundance of 1497 | in Mongolia 2044 in USSR 9, 2911 |
| preying on, Lardoglyphus falconidus, in | Dermacarus mongolicus | on sheep, in Mongolia 2044 |
| New York 276 | sp. nov., description of 2247 | Rickettsia sibirica in, in USSR 2911 |
| Dendrolimus, on man, effects of 710 Dengue | in Mongolia 2247 on <i>Allactaga sibirica</i> , in Mongolia 2247 | seasonal abundance of 9 Dermacentor parumapertus, arboviruses in, |
| epidemics of, cost analysis of 1643 | Dermacarus newyorkensis, on Zapus, in | replication of 2977 |
| in Caribbean 167 in Colombia 3077 | North America 1447 Dermacarus tamiasciuri | Dermacentor pictus control of |
| in Malagasy Republic 2408 | in USA 1800 | acaricides for 246 |
| Dengue virus | on Tamiasciurus hudsonicus, in Indiana | repellents for 246 |
| control of, vector control for 1060, 1063, 1345, 1348 | 1800 Dermacentor | Coxiella burneti in, transmission of 2606 habitats of 917 |
| in | Congo virus in, transmission of 256 | in USSR 2911 |
| Aedes spp., in Senegal 2780 A. aegypti | Rickettsia spp. in, transmission of 2574 tick-borne encephalitis | Rickettsia sibirica in, in Crimea 2911 Salmonella spp. in, persistence of 2626 |
| in Nigeria 3044 | virus in | Dermacentor reticulatus |
| in Venezuela 1347 infectivity of, strain differences in | trans-stadial transmission of 2910 | Babesia canis in, development of 1432 |
| 1644 | transovarial transmission of 2910 Dermacentor albipictus | development in, effects of habitat on 2561 |
| transmission of 167, 784, 1084, | control of, acaricides for 266, 3245 | distribution of 457 |
| 1085, 1294 A. albopictus | in Canada 2590 in USA 1202, 2264 | hygienic importance of 457 in Czechoslovakia 2561 |
| effects of 1650 | on Alces alces, in Ontario 2590 | in Hungary 1439 |
| effects of persistent infection with 344 | on Ammotragus lervia, in Texas 2264 on Odocoileus hemionus, in Texas 2264 | Rickettsia slovaca in, in Hungary 1439 Dermacentor silvarum |
| infectivity of 1847 | on Odocoileus virginianus, in Texas 1202 | in USSR 9, 1434, 1744 |
| localisation of 1904 | seasonal abundance of 2590 | on Apodemus agrarius, in Soviet Far East |
| transmission of 784, 1084, 1085, 1294 | Dermacentor andersoni biology of 2556 | 1744 on <i>Erinaceus europaeus</i> , in Soviet Far |
| A. polynesiensis, in Futuna 124 | Colorado tick fever, virus in, transmission | East 1434 |
| Culex quinquefasciatus, in Venezuela 1347 | of 85 control of 2556 | seasonal abundance of 9 |
| Culicidae, xenodiagnosis of 2788 | immunization for 1180 | Dermacentor variabilis biology of 2558 |
| man | foveal glands in 1441 | control of |
| in California 85 in Dominican Republic 1345 | habitats of 2557 in Canada 2556 | by non-target DDT 1758 mating disruption for 2578 |
| in Futuna 124 | in USA 648, 2557 | feeding behaviour in, effects of humidity |
| in Haiti 1345 in Honduras 1348 | intracellular symbionts in 2301 life tables for 2556 | on 914 foveal glands in 1441 |
| in Indonesia 2788 | on cattle, immunization against 1180 | habitats of 928, 2557, 2559 |
| in Java 1084 | on guinea-pig | host-seeking in, effects of weather on |
| in Venezuela 1347 mosquito cell lines, identifying of 1645 | antibodies to 3190 basophil responses to 2620 | 2954 hosts of 2559 |
| Toxorhynchites amboinensis | immunization against 1180 | habitats of 928 |
| detecting of 2381 identifying of 2381 | resistance to 408, 1438 on rabbit, resistance to 2224 | in Nova Scotia 928 in Canada 258, 928, 2558, 2559, 3192 |
| vectors of | on small mammals, in Washington 2557 | in USA 250, 251, 258, 259, 1202, 1256, |
| competence of 784 | paralysis caused by, mechanism of 2211 | 1424, 1758, 2006, 2557, 2558, 2560, 2575 |
| land use changes as affecting 2695 virulence of 784 | Pasteurella tularensis in, transmission of, effects of host resistance on 2224 | light responses in 1191 |
| | | |

| Dermacentor variabilis conta. | in Colombia 2685 | in house dust contd |
|--|---|---|
| mating in 1759 | in Colombia 2685 on cattle | in house dust <i>contd</i> . in Iran 1205 |
| metepa in, effects of 2002 | in Brazil 204 | in North Dakota 2233 |
| mortality in, effects of humidity on 914 | in Colombia 2685 | in Ohio 1794, 2566, 2567 |
| on Lepus americanus, distribution pattern | | in Peru 273 |
| of 3192 | on man, in tongue 1677 | in Portugal 1795 |
| on man, feeding by 250 | on zebu, effects of hide colour on 2154 taxonomy of 2684 | in USSR 2236 |
| on Microtus pennsylvanicus, in Massachusetts 2575 | | interactions with fungi of 2565 |
| on Odocoileus virginianus, in Texas 1202 | Dermatophagoides in house dust | interactions with other mites of 2564 |
| on Peromyscus leucopus, in Massachusetts | in Iran 1205 | on guinea-pig, hypersensitivity to 285, |
| 250, 2575 | in Japan 2636 | 2238 |
| on Procyon lotor, in Indiana 1256 | in Sweden 2923 | on man |
| on rabbit, hypersensitivity to 1433 | interactions with other mites of 2563 | antibodies to 937, 1217, 2649 |
| on rodents, resistance to 259 | on man | hypersensitivity to 422, 423, 1207, |
| on small mammals | hypersensitivity to 2701, 2920 | 1209, 1443, 1506, 1516, 1798, 2236 |
| in Nova Scotia 2559 | diagnosis of 2237 | 2566, 2648, 2650 |
| in Washington 2557 | Dermatophagoides farinae | diagnosis of 2234 |
| on Synaptomys cooperi, in Indiana 1424 | allergens of 670, 675, 1454 | treatment of 1790, 3228 |
| on Taxidea taxus, in Indiana 1256 | phosphorylcholine in 2914 | role in allergic rhinitis of 2645 |
| on Urocyon cinereoargenteus, paralysis | antigens of, specificity of 285 | on rabbit, hypersensitivity to 285 |
| caused by 2006 | citral in 3223 | population dynamics of 2564 |
| paralysis caused by, mechanism of 2211 | in Bulgaria 1779 | rearing of |
| Pasteurella tularensis in, not transmitted | in Canada 2014 | diets for 271 |
| to hypersensitive host 1433 | in Colombia 3225 | techniques for 1209 |
| population dynamics of 259 | in Czechoslovakia 2564 | seasonal abundance of 1779, 2014, 2566 |
| reproduction in 1188 | in Denmark 1781 | 2567 |
| Rickettsia rickettsi in, overwintering of | in India 2927 in Portugal 1795 | Dermestes lardarius in UK 638 |
| 2560 salivary glands in, functional morphology | in USA 1794, 2566, 2567 | in poultry houses, in UK 638 |
| of 1983 | in USSR 2236 | in structural wood, in UK 638 |
| seasonal abundance of 258, 259, 2559, | in house dust | Dermestes maculatus |
| 3192 | detecting of 1782 | in UK 638 |
| sex pheromone of 2578 | effects of humidity on 1782 | in poultry houses, in UK 638 |
| spotted-fever rickettsiae in, in Connecticut | in British Columbia 2014 | in structural wood, in UK 638 |
| 251 | in Bulgaria 1779 | Dermestes pulcher |
| sterilisation of, chemosterilants for 2002 | in Colombia 3225 | in USA 276 |
| temperature as affecting 258, 259 | in Denmark 1781 | in Falco sparverius nests, in New York |
| winter temperatures as affecting 2560 | in India 2927 | 276 |
| zoogeography of 2558 | in Ohio 1794, 2566, 2567 | Lardoglyphus falconidus on, in New Yor |
| Dermakulin (see HCH, with 2-chloro-3- | in Portugal 1795 | 276 |
| methyl-6-(1-methylethyl)phenol, 5- | in USSR 2236 | Dermestidae |
| methyl-2-(1-methylethyl)phenol, | interactions with other mites of 2564 | control of, insecticides for 909 |
| phenylmethyl benzoate, prednisolone, | lipids in 2020 | in sheepskin, in Queensland 909 |
| and propanoic acid) | on man | Derris (see Rotenone) |
| Dermanyssidae, on bat, in Poland 935 | hypersensitivity to 675, 2566, 3222 | Descurainia sophia, insecticidal activity of |
| Dermanyssus gallinae | role in urticaria of 2633 | mucilaginous seeds of 2120 |
| control of, acaricides for 2042, 2675, 3211 | on rabbit, hypersensitivity to 285 | Desensitization, immunologic for treatment of hypersensitivity to Apis |
| in Canada 2245 | population dynamics of 2564 rearing of, diets for 2569 | mellifera venom 1971 |
| in Iraq 3211 | seasonal abundance of 2014, 2566, 2567 | for treatment of hypersensitivity to house |
| in USA 1829 | separation from rearing media of 1787 | dust mites 1790, 2645, 2649, 3228 |
| in USSR 2042, 2675 | supracoxal glands in, evaluating salt | for treatment of hypersensitivity to |
| on fowl, in USA 1829 | concentrations in 1785 | Hymenoptera stings 2543, 3184 |
| on man | water relations of 1974 | for treatment of hypersensitivity to |
| hypersensitivity to 3211 | Dermatophagoides microceras | mosquito bites 546 |
| in Quebec 2245 | in USA 1794 | Desmometopa, on man, in Indiana 1259 |
| on pigeon | in house dust, in Ohio 1794 | Desoxycorticosterone (see Desoxycortone) |
| in Iraq 3211 | water relations of 2632 | Desoxycortone (21-hydroxypregn-4-ene-3,2 |
| in Quebec 2245 | Dermatophagoides pteronyssinus | dione) |
| Dermaptera | allergens of 664, 937, 1209, 1454, 2238 | in fowl, increasing resistance to |
| in Fennoscandia 51 | estimating of potency of 2924 | Ornithonyssus sylviarum 941 |
| on Cricetomys gambianus, in Nigeria 3212 | in bedding dust 1208 in commercial extracts 1208 | destructor, Lepidoglyphus |
| vertebrate associations of, evolution of | phosphorylcholine in 2914 | Detaching agents, role in control of Acari of 2548 |
| 2294 | preparation from rearing media of 271 | Detox (see DDT) |
| Dermatitis | antigens of | detritum, Hyalomma |
| in dog, caused by Cheyletiella | localisation of 2568 | detritus, Aedes |
| parasitivorax 2657 | specificity of 285 | Developing countries, tick control in 2549 |
| in man | in Australia 1506 | Dhori virus, in, Hyalomma marginatum, in |
| caused by Ceratophyllus 3026 | in Brazil 1453 | Portugal 653 |
| caused by Cheyletiella blakei 2651 | in Bulgaria 1779 | Diagnosis |
| caused by Ctenocephalides felis 2351 | in Canada 2014 | of arboviral infections 2980 |
| caused by Euproctis similis 461 | in Colombia 3225 | of blister-beetle poisoning 910 |
| caused by Lepidoptera 710 | in Czechoslovakia 2564 | of Chagas' disease 1278, 2075, 2708 |
| caused by Oedemeridae 711 | in Denmark 1781 | of <i>Epicauta</i> poisoning in horse 402 |
| caused by <i>Paederus fuscipes</i> 711, 969 caused by <i>Pyemotes</i> 3210 | in India 2927 in Iran 1205 | of house-dust allergy 670, 1443 of hypersensitivity to house-dust mites |
| Dermatitis, atopic | in Netherlands 2565 | 2237 |
| in man, role of house-dust mites in 3222 | in Peru 273 | of hypersensitivity to Hymenoptera 203 |
| in Vulpes fulva, caused by Siphonaptera | in Portugal 1795 | of hypersensitivity to Hymenoptera sting |
| 2712 | in Thailand 2645 | 3182, 3185 |
| Dermatitis, contact, in man, caused by | in USA 1794, 2233, 2566, 2567 | of hypersensitivity to Hymenoptera |
| Periplaneta americana 2327 | in USSR 2236 | venoms 2198 |
| Dermatobia hominis | in house dust | of hypersensitivity to stinging insects |
| biology of 2684, 2685 | detecting of 1782 | 241, 2201 |
| control of, insecticides for 204, 2685 | effects of humidity on 1782 | of Hypoderma bovis infestations in cattle |
| distribution of 2684 | in Brazil 1453 | 1125 |
| fertility in | in British Columbia 2014 | of parasites of domestic animals, book |
| effects of chemosterilants on 2684 | in Bulgaria 1779 | 977 |
| effects of irradiation on 2684 | in Colombia 3225 | of respiratory hypersensitivity to house- |
| hosts of 2684 | in Denmark 1781 | dust mites 2234 |
| in Brazil 204, 1677, 2154 | in India 2927 | of scabies 1793 |

| Diagnosis contd. | Dichlorvos contd. | Dieldrin contd. |
|---|--|--|
| of scabies in man 2929 Diamanus montanus | against contd. Culex pipiens 3074 | resistance to, in Amblyomma variegatum, in Tanzania |
| hosts of 1283 | C. quinquefasciatus 1909 | 1999 |
| in USA 331, 1283 | Culicidae 472 | Anopheles spp. |
| on Spermophilus beecheyi, in California | Demodex canis, on dog 2008 | deliberately linked to Y chromosome |
| 1283 | Diptera, in pig farms 376 | 2721 |
| Yersinia pestis in, transmission of 331 | Haematobia irritans, on cattle 591 | in Romania 1322 |
| liana, Hypoderma | Hybomitra sexfasciata 1676 | A. albimanus, increased by selection for |
| liantaeus, Aedes liaperinus, Alphitobius | Lipeurus caponis, on fowl 2333 Menacanthus stramineus, on fowl | parathion resistance 153 A. culicifacies |
| Diarrhea, seasonal incidence of, relation of | 2333 | genetics of 2097 |
| incidence of synanthropic flies and | Musca domestica 1225, 2852, 2869 | in Karnataka 1908 |
| 3150 | pests of livestock 2281 | Culex gelidus, in Karnataka 2771 |
| Diatom, Simuliidae feeding on, in New York | Rhipicephalus appendiculatus, on cattle | Rhipicephalus appendiculatus, |
| 189 Diazinon (O,O-diethyl O-[6-methyl-2-(1- | 2552 determination of 2948 | inheritance of 2597 R. evertsi 2897 |
| methylethyl)-4-pyrimidinyl] | formulations of, with oil 3074 | in Kenya 1179 |
| phosphorothioate) | in Acheta domesticus, effects on | synaptic transmission as affected by 476 |
| against | melanisation of 2062 | Diethyl ether (see Ethane, 1,1'-oxybis-) |
| Blattaria 316 | in aerosols, settling of 2255 | Diflubenzuron (N-[[(4- |
| Blattella germanica 3244 | in Apis mellifera, toxicity of 163 | chlorophenyl)amino]carbonyl]-2,6- |
| in dwellings 1698 Ctenocephalides felis, in dwellings | in cattle, effects of 616 in cattle ear-tags 2552 | difluorobenzamide) against |
| 2351 | in Periplaneta americana, effects on | Aedes cantans 2751 |
| Culex pipiens 3074 | melanisation of 2062 | A. rusticus 2751 |
| Diptera, in pig farms 376 | in pig, effects of 376 | A. taeniorhynchus, in temporary pools |
| Haematopinus suis, on pig 2334 | resistance to, in, Musca domestica, in | 1895 |
| Hyalomma spp. 2605 Lucilia cuprina 609, 1151 | West Germany 2504, 3167 | A. vexans 2751 |
| on sheep 895, 897, 2175, 3165 | with chlorpyrifos, against, <i>Blattella</i> germanica, in dwellings 1265 | Chaoborus spp., in ponds 211 Culex spp., in pig-waste lagoons 1070 |
| Musca domestica 2852, 2869 | with lindane, against, Argas persicus, in | C. quinquefasciatus 1329 |
| Periplaneta americana, in dwellings | fowl houses 640 | in drains 1306 |
| 1698 | with pyrethrins, and tetramethrin, against, | Culicidae 1857 |
| Psoroptes spp. | Rhipicephalus sanguineus 2595 | Culiseta morsitans 2751 |
| on cattle 2239 on sheep 2239 | Dicofol (4-chloro-α-(4-chlorophenyl)-α- (trichloromethyl)benzenemethanol) | Musca domestica 1683 Simuliidae 191 |
| P. equi, on Asian buffalo 270 | in rat, toxicity of 3250 | Simulium venustum, in streams 1666 |
| P. ovis | Dicresyl (see Carbamic acid, methyl-, 3- | in Apis mellifera, toxicity of 163 |
| on goat 272 | methylphenyl ester, with 4-methylphenyl | in Culex pipiens, inhibition of chitin |
| on sheep 272 | methylcarbamate) | synthesis by 812 |
| Rhipicephalus bursa 2605 Rhodnius prolixus 70 | Dicrocoelium dendriticum in | in Gambusia affinis, effects on swimming behaviour of 955 |
| Sarcoptes scabiei | Cataglyphis bicolor, in Yugoslavia 442 | in Musca domestica |
| on Asian buffalo 270 | Formica fusca, in Yugoslavia 442 | effects of 2511 |
| on camel 270 | F. rufibarbis, in Yugoslavia 442 | effects on ovaries of 2845 |
| Wohlfahrtia spp. 3153 | Dicrotendipes californicus | inhibiting larval development 2887 |
| formulations of | emergence in 889 in USA 889 | inhibition of chitin synthesis by 383 |
| slow-release 70 surfactants for 3244 | in recreational lakes, in California 889 | in <i>Pomoxis nigromaculatus</i> , residues of 211 |
| with oil 3074 | Dicrotophos ((E)-3-(dimethylamino)-1- | in pools, dissipation of 3031 |
| in Boophilus microplus, effects on | methyl-3-oxo-1-propenyl dimethyl | in streams, detachment of Simuliidae |
| oviposition of 2598 | phosphate) | caused by 1666 |
| in Musca domestica absorption of 628 | against, Rhipicephalus sanguineus 2614 in Acheta domesticus, effects on | insect control using 467 |
| effects of cuticular lipids on absorption | melanisation of 2062 | resistance to, in, Musca domestica, mechanisms of 903 |
| of 583 | in Periplaneta americana, effects on | review 2959 |
| in poultry, poisoning by 3252, 3253 | melanisation of 2062 | sterilant for, Musca domestica 1940 |
| resistance to, in | resistance to, in, Boophilus microplus, in | synergists for 903 |
| Blattella germanica 1513 Hyalomma anatolicum 2593 | Brazil 2616 Dictya umbrarum | Digitaria decumbens, Aethus indicus associated with, in Amami Islands 709 |
| Lucilia cuprina | preying on | Dimatif (see Phosphinothioic amide, P,P- |
| genetics of 1127, 2883 | Lymnaea tomentosa 898 | bis(1-aziridinyl)-) |
| in New South Wales 596 | Stagnicola palustris 898 | Dimecron (see Phosphamidon) |
| in Victoria 596 | rearing of, techniques for 898 | 1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10- |
| Musca domestica 212 synergists for, S,S,S-tributyl | Dictyoploca japonica (see Caligula japonica) | hexachloro-1,4,4a,5,8,8a-hexahydro-, $(1\alpha,4\alpha,4a\beta,5\alpha,8\alpha,8a\beta)$ - (see Aldrin) |
| phosphorotrithioate as 609, 1151 | Didelphidae, Rhodnius pallescens on, in Panama 3024 | 2,7:3,6-Dimethanonaphth[2,3-b]oxirene, |
| Dibrom (see Naled) | Didelphis marsupialis | 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a- |
| Diceromyia | Culex portesi on, in French Guiana 3030 | octahydro- |
| arboviruses in, in Senegal 2780 | Eutrombicula splendens on, in Florida | $(1a\alpha,2\beta,2a\alpha,3\beta,6\beta,6a\alpha,7\beta,7a\alpha)$ - (see |
| yellow fever, virus in, in Senegal 166 Dichelacera fasciata | 2240 Walchia americana on, in Florida 2240 | Dieldrin) $(1a\alpha,2\beta,2a\beta,3\alpha,6\alpha,6a\beta,7\beta,7a\alpha)$ - (see |
| in Costa Rica 2496 | Dieldrin ($(1a\alpha,2\beta,2a\alpha,3\beta,6\beta,6a\alpha,7\beta,7a\alpha)$ - | Endrin) |
| on horse, in Costa Rica 2496 | 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a- | Dimethoate (O,O-dimethyl S-[2- |
| preyed on by, Bembix multipicta, in Costa | octahydro-2,7:3,6-dimethanonaphth[2,3- | (methylamino)-2-oxoethyl] |
| Rica 2496 | b]oxirene) | phosphorodithioate) |
| Dichlofenthion (O-(2,4-dichlorophenyl) O,O-diethyl phosphorothioate) | against Amblyomma lepidum 1999 | against Leptotrombidium deliense, on small |
| against | A. variegatum 1999 | mammals 939 |
| Lipeurus caponis, on fowl 2333 | Anopheles philippinensis 2426 | Musca domestica 212 |
| Menacanthus stramineus, on fowl | Glossina morsitans 373 | in cattle sheds 2515 |
| 2333 | Pediculus capitis, on man 1273 | in pig farms 3154 |
| Dichlorvos (2,2-dichloroethenyl dimethyl phosphate) | Triatominae, in dwellings 64 in fowl, elimination of 703 | in Boophilus microplus, effects on oviposition of 2598 |
| against | in meat, residues of 2942 | in cattle sheds, persistence of 2515 |
| Aedes spp. 1225 | in Musca domestica | in Periplaneta americana |
| A. aegypti 1909 | absorption of 628 | effects on nucleic acids of 320 |
| Anopheles stephensi 1909 | effects of cuticular lipids on absorption | not affecting cholesterol 320 |
| Argas persicus, on fowl 640, 1177 Blattella germanica 1225, 2052 | of 583 in <i>Rhodnius prolixus</i> , sublethal effects of | in rodent baits 939 resistance to, in |
| Cephenemyia trompe 1676 | 3021 | Musca domestica |
| Cimex lectularius 1225 | residues of 373 | development of 3154 |
| | | |

Culex annulirostris on, in Queensland

Diphenacin (see Diphenadione)

```
dissimilis, Ceratophyllus penicilliger (see
                                                                       Diphenadione (2-(diphenylacetyl)-1H-indene-
Dimethoate contd.
                                                                                                                                                   Amalaraeus penicilliger dissimilis)
   resistance to, in contd.
                                                                            1.3(2H)-dione)
                                                                                                                                              dissimilis, Ugandobia
                                                                          in Xenopsylla cheopis, inhibiting blockage
      Musca domestica contd.
         in East Germany 3154
in West Germany 2504, 3167
                                                                                                                                              Distannoxane, hexakis(2-methyl-2-
                                                                               formation by Yersinia pestis
                                                                                                                                                   phenylpropyl)- (see Fenbutatin oxide)
                                                                       Diphosphoric acid, tetraethyl ester (see
      Rhipicephalus evertsi 2897
                                                                            TEPP)
                                                                                                                                              distinctitarsus, Echinonyssus
   with dactinomycin
                                                                       Diplopoda, preving on, molluscs 2037
                                                                                                                                              Distribution maps, Haemaphysalis 650
      in Periplaneta americana
                                                                       Diploptera punctata
                                                                                                                                              Ditches, Culicidae in, in Diibouti 1075
         effects on cholesterol of 320
                                                                          agonistic behaviour in 999
                                                                                                                                              Dithiocarb (see Carbamodithioic acid,
effects on nucleic acids of 320

Dimethyl sulfoxide (sulfinylbis[methane])
                                                                          growth regulators in, effects of 1267
                                                                                                                                                   diethyl-, sodium salt)
                                                                                                                                              1,3-Dithiolo[4,5-b]quinoxalin-2-one, 6-methyl- (see Quinomethionate) diversipilis, Macronyssus
                                                                          iuvenile hormones in
                                                                             identifying of 2
   in diazinon formulations, effects on
                                                                              regulation of synthesis of 2323, 2330
        insecticidal activity of 3244
                                                                                                                                              Dixanthogen (thioperoxydicarbonic acid ([(HO)C(S)]<sub>2</sub>S<sub>2</sub>) diethyl ester)
dimidiata, Triatoma
                                                                       Dipodomys merriami
Dimilin (see Diflubenzuron)
                                                                          Lepidoptera on, in California 3186
                                                                                                                                                 against, Sarcoptes scabiei, on man 3226
Diminazene aceturate
                                                                          Meringis disparalis on, in New Mexico
                                                                                                                                              Dixidae
   against, Trypanosoma congolense, in mouse 1933
                                                                                                                                              filter-feeding in 2300
taxonomy of, characters for 352
Djibouti (formerly French Territory of the
                                                                       Dipodomys ordii
   in rabbit, effects on Glossina palpalis of
                                                                          Meringis disparalis on, in New Mexico
        2835
                                                                                                                                                   Afars and Issas)
Dinobuton (1-methylethyl 2-(1-
                                                                          M. facilis on, in USA 327
                                                                                                                                                 Anopheles spp. in 1075
Culex spp. in 1075
                                                                       Dintera
     methylpropyl)-4,6-dinitrophenyl
                                                                          book 2994
                                                                                                                                                 mosquito control in 1075
    carbonate)
                                                                                                                                              DMC (see Chlorfenethol)
DMP (see 1,2-Benzenedicarboxylic acid,
dimethyl ester)
DNA (see Deoxyribonucleic acids)
DNA polymerase (see
   in sheep, toxicity of 3251
                                                                          control of
Dinopsyllus, taxonomy of, larval characters for 2716
                                                                             bait traps for 2526
in Italy 973
                                                                         in secticides for 451, 975
filter-feeding in 2300
in Afrotropical region, book 3029
in Comoro Islands 2690
3,5-Dioxa-6-aza-4-phosphaoct-6-ene-8-nitrile, 7-(2-chlorophenyl)-4-ethoxy-, 4-sulfide
                                                                                                                                                   Nucleotidyltransferase, deoxyribonucleate)
(see Chlorphoxim)
3,5-Dioxa-6-aza-4-phosphaoct-6-ene-8-nitrile,
4-ethoxy-7-phenyl-, 4-sulfide (see
                                                                                                                                              DNSAB (see 1-Naphthalenesulfonamide, N-1,3-benzodioxol-5-yl-5-(dimethylamino)-)
                                                                          in Finland 2728
in Italy 987
in Maine 1552
     Phoxim)
Dioxacarb (2-(1,3-dioxolan-2-yl)phenyl methylcarbamate)
                                                                                                                                              Docking, role in controlling fly strike on sheep of 893, 896
                                                                          in North America 78
in carrion, in USA 452
                                                                                                                                              2,4-Dodecadienethioic acid, 11-methoxy-
3,7,11-trimethyl-, S-ethyl ester, (2E,4E)-
   against, Monomorium pharaonis, in
dwellings 3181

Dioxathion (S,S'-1,4-dioxane-2,3-diyl
                                                                          in livestock housing, in France 2538 in pasture soils, key 1689
                                                                                                                                                   (see Triprene)
                                                                          in pig confinement housing, in Texas 1704
   ioxarnon (5,5 -1,4-dioxane-2,3-diyl
bis(O,O-diethyl phosphorodithioate))
against, Ixodidae 644
in Boophilus microplus, effects on
oviposition of 2598
                                                                                                                                              2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methylethyl ester, (2E,4E)-
                                                                          in rivers, in Spain 1499 insecticide resistance in 428
                                                                                                                                                   (see Methoprene)
                                                                                                                                              2,4-Dodecadienoic acid, 3,7,11-trimethylethyl ester, (2E,4E)- (see Hydroprene) 2-propynyl ester, (2E,4E)- (see
                                                                          on domestic animals, in Fiji 1262 on game, book 2261
   in cattle
   excretion in milk of 3206 poisoning by 3253 in cattle milk, residues of 32
                                                                          on livestock, in Nigeria 2045, 2046 population age distribution in 504
                                                                                                                                                       Kinoprene)
                                                                                                                                              2,6-Dodecadienoic acid, 11-methoxy-3,7-
                                                                                                                                                   dimethyl-, methyl ester, against, Tenebrio molitor 705
   in dog, poisoning by 3253 in pastures, persistence of 660 resistance to, in
                                                                          preyed on by
                                                                              Corvus frugilegus, in New Zealand
                                                                                                                                              Dodecanamine, N,N-dimethyl-, against, Psoroptes cuniculi, on rabbit 1218
                                                                                   1396
      Boophilus microplus, inheritance of
                                                                              Holcocephala fusca, in Virginia 1553
                                                                              Salticidae 293
                                                                                                                                              Dodecanoic acid
                                                                                                                                              Dodecanoic acid
in Aedes triseriatus, toxicity of 522
in Cladophora glomerata 522
2,6,10-Dodecatrien-1-ol, 3,7,11-trimethyl-
in Blaberus craniifer, accelerating
vitellogenesis 743
inhibition of protein and nucleic acid
synthesis by 2421
2-Dodecenoic acid, 7,11-dichloro-3,7,11-
trimethyl-
      Ixodidae
                                                                          preying on, molluscs 2037
                                                                          synanthropic
in Saudi Arabia 1237, 2990
in Soviet Far East 26
         in South Africa 2016
in southern Africa 2551
       Rhipicephalus sanguineus, in Kenya
                                                                              Streptococcus faecalis in 2163
   with chlorfenvinphos, against,
                                                                           vertebrate associations of, evolution of
        Rhipicephalus appendiculatus, on cattle 2552
                                                                               2294
                                                                       Dipterex (see Trichlorphon)
Dipel (see Bacillus thuringiensis var.
                                                                       Dipus sagitta
                                                                                                                                                   trimethyl-
                                                                                                                                                  methyl ester
     kurstaki)
                                                                          Siphonaptera on, in USSR 1031
                                                                                                                                                     in Haemaphysalis concinna, effects of
Dipetalogaster maxima
                                                                           Xenopsylla tarimensis on, in China
    rearing of, techniques for 1668
                                                                       Dirofilaria, vectors of 1291
                                                                                                                                                         1178
                                                                                                                                              in Ixodes ricinus, effects of 1178
10-Dodecen-3-one, 7,11-dimethyl-, against,
Aedes aegypti 1231
doenitzi, Haemaphysalis
Dog (Canis familiaris)
    Trypanosoma cruzi in
                                                                       Dirofilaria immitis
survival after death of 2080
xenodiagnosis of 2075
Dipetalonema, in, Ixodidae, transmission of
                                                                          in
                                                                             Acdes aegypti, effects of Ascocystis culicis on 1092
A. hendersoni, development of 1594
A. pembaensis, in East Africa 550
A. sticticus, in Alabama 3085
A. togoi, transmission of 2405
                                                                                                                                                 arthropod parasites of
diagnosing of, book 977
in Europe 2691
in Fiji 1262
Dipetalonema caudispina, in, Culicoides hollensis, development of 356
Dipetalonema dessetae, in, Aedes aegypti,
     protein synthesis induced by 2367
                                                                              A. triseriatus, development of 1594
Dipetalonema gracile, in, Culicoides
                                                                              A. trivittatus, defence mechanisms
                                                                                                                                                  arthropod pests of, in Nigeria 2045, 2046
                                                                                                                                                 Babesia spp. in, in Netherlands 2912
B. canis in, tick transmission of 920
     hollensis, development of 356
                                                                                   against 11
Dipetalonema perstans
                                                                              A. vexans, in Alabama 3085
   in, man, in Americas 978 vectors of 978
                                                                              Anopheles punctipennis, in Alabama 3085
                                                                                                                                                 blood-sucking flies on, feeding on ears of
                                                                                                                                                       1661
Dipetalonema rugosicauda
                                                                              A. tenebrosus, in East Africa 550 dog, in California 86
                                                                                                                                                 Buthus tamulus venom in, effects of 3236
   in
                                                                                                                                                 Cheyletiella spp. on effects of 417
                                                                              Mansonia africana, in East Africa
M. uniformis, in East Africa 550
      Ixodes ricinus
          in Switzerland 412
         in West Germany 2228 infectivity of 2228
                                                                       discoidalis, Blaberus
discolor, Psorophora
                                                                                                                                                     in Haryana 1455
                                                                                                                                                  C. parasitivorax on, in Argentina 2657
                                                                                                                                                     yasguri on
effects of 1780
in South Africa 417
Dipetalonema viteae
                                                                       Dismutase, superoxide
                                                                          in Anopheles beklemishevi, genetics of
      Meriones unguiculatus, infectivity of 1749
                                                                               2104
                                                                      in Anopheles messeae, genetics of 2104
dispar, Lutzomyia
dispar, Lymantria
disparalis, Meringis
disputaria, Tephrina
dissector, Ampulex
                                                                                                                                                  Cochliomyia minima on, in Puerto Rico
       Ornithodoros moubata
                                                                                                                                                      2889
                                                                                                                                                  Ctenocephalides canis on, in Ryukyu
Islands 718
          experimental infection with 923 transmission of 1749
O. tartakovskyi, morphology of 2901
Dipetalonema witei (see D. viteae)
                                                                                                                                                      felis on, in Ryukyu Islands 718
```

dissimilis, Amalaraeus penicilliger

| Dog contd. | Dolichovespula maculata contd. | Drains, Culex quinquefasciatus in, in India |
|---|---|---|
| Culicidae on, in Queensland 1291 Culicoides belkini on 1097 | venom of <i>contd.</i> toxicity to insects of 2195 | 1306 drakensbergi, Sergentomyia |
| Demodex spp. on, immune response to | toxicity to vertebrates of 2195 | Dredgings |
| 2546 | Dolichovespula saxonica nipponica | Aedes sollicitans in, in North Carolina |
| D. canis on | in Japan 243 | 151 |
| in France 2244 | queens of, maintenance of two nests by | A. taeniorhynchus in, in North Carolina |
| in Orissa 2008 | 243 Domestic animals | 151 |
| lesions caused by 2246 susceptibility to 944, 2652 | arthropod parasites of, diagnosing of, | dreyfussi, Sergentomyia Drinking pools |
| dioxathion in, poisoning by 3253 | book 977 | Culicidae in, in Djibouti 1075 |
| Dirofilaria immitis in | arthropod pests of | mosquito control in 1075 |
| in Alabama 3085 | in Canada 1263 | dromedarii, Hyalomma |
| in California 86 mosquito transmission of 2405 | in Indiana 1259 in South Africa 2987 | Dromedary (see Camel) |
| Ehrlichia canis in, in Florida zoo 2591 | arthropods as pests of, review 2295 | Drosophila |
| Hippobosca longipennis on, in Israel | Congo virus in, in Yugoslavia 2217 | biology of 1141 |
| 2992 | Ixodidae on | body temperature in, measuring of 1261 in UK 1141 |
| Ixodes scapularis on, in Massachusetts 260 | in Mizoram 1436 in Sudan 2007 | nucleic acids in 396 |
| Ixodidae on | Ixodoidea on | preying on, Simulium spp. 474 |
| in Assam 48 | in Europe 457 | sex determination in 2412 |
| in Punjab 268 | in Karnataka 2017 | sex peptides in, role in reproduction of 40 |
| Leishmania spp. in in Italy 835 | pest control on, review 2296 Trichodectidae on, in Spain 448 | visual neurons in, sex differences in 218 |
| in Kenya 2814 | domestica, Musca | wing disks in, fate map for 615 |
| L. donovani in, in Venezuela 185, 186 | domesticus, Acheta | Drosophila gibbinsi |
| L. tropica in, in USSR 44 | domesticus, Glycyphagus | preying on, Simulium spp. 474 |
| Linognathus setosus on, in Japan 708 | domesticus, Sclerodermus | rearing of, techniques for 474 |
| Lucilia sericata on, in East Germany 2502 | domicola, Calvolia domicola, Hirstia | Drosophila melanogaster activity in, monitoring of 6 |
| Lutzomyia dispar on, in Brazil 1663 | Dominica, dengue in 167 | air resistance of 731 |
| mite control on 944 | Dominican Republic | cuticle in, hardening and coloration of |
| acaricides for 416, 940, 1448 | Aedes aegypti in 1345 | 2693 |
| mites on, in Haryana 2646 Oestrus ovis on, in West Germany 2155 | Culicidae in 2047, 2086 Culicoides spp. in 2047, 2086 | eye colour mutants of 2493 eyes in, fluorescent substances in 1131 |
| Otodectes cynotis on | dengue in 1345 | in USA 207 |
| in Honshu 2243 | eastern equine encephalitis in 2047 | in fruit waste, in California 207 |
| otitis externa caused by 1210 | Tabanidae in 3161 | in vegetable waste, in California 207 |
| Phlebotomus perniciosus on, in Tunisia | donaldi, Anopheles Donkey (Equus asinus) | wing-beat frequency of, measuring of 772 |
| 2446 | Ixodidae on, in Punjab 268 | Drosophila mercatorum |
| Pulex irritans on, in Ryukyu Islands 718 | Rift Valley fever, virus in, in Egypt 2362 | evolutionary potential in 2270 |
| Rhipicephalus sanguineus on | Dopamine (4-(2-aminoethyl)-1,2- | insect growth regulators in, development |
| in Florida zoo 2591 in Ivory Coast 2614 | benzenediol) in <i>Amblyomma americanum</i> | of resistance to 2270 parthenogenesis in 2270 |
| in Mississippi 2623 | effects on salivation of 1978 | Drosophila pseudoobscura, eclosion in, |
| in Netherlands 2912 | stimulating salivation 1757 | rhythm of 1045 |
| in Poland 2630, 3195 | in Blattaria, as neurotransmitter 741 | drosophilae, Spalangia |
| in West Germany 2594 Rift Valley fever, virus in, in Egypt 2362 | in cattle, not causing detachment of Boophilus microplus 3202 | Drosophilidae, in livestock farms, in Bulgaria 877 |
| screening of mosquito repellents on 802 | in <i>Periplaneta americana</i> central nervous | dthali, Anopheles |
| Siphonaptera on, in Northern Ireland | system, localisation of 752 | DU-19111 (see Benzamide, 2,6-dichloro-N- |
| 768 | in rat, Latrodectus tredecimguttatus | [[(3,4-dichlorophenyl)amino]carbonyl]-) |
| strychnine in, poisoning by 3252 Tahyňa virus in, in Romania 2430 | venom stimulating secretion of 2252 in rat brain, effects of Apis mellifera | dubosqi, Phlebotomus dufouri, Dasyhelea |
| tick control on | venom on 1422 | Dugbe virus |
| acaricides for 2595 | doratanae, Gahrliepia | in |
| mating disruption for 2578 | Doratopsylla birulai (see Corrodopsylla | Amblyomma variegatum, in Nigeria 2596 |
| toxaphene in, poisoning by 3252, 3253 <i>Triatoma barberi</i> on, in Mexico 3023 | birulai) dorsalis, Aedes | Hyalomma spp., in Nigeria 2596 |
| Trichophyton mentagrophytes in, lesions | dorsalis, Chironomus | H. marginatum, replication of 2596 |
| caused by 2246 | dorsalis, Hydromya | Dugesia dorotocephala |
| Trypanosoma cruzi in, in Brazil 67, 2077 | dorsalis, Rhyacophila | predation by, effects of sectioning on 1054 |
| T. rangeli in, in Venezuela 3022 Vetrazin in, toxicity of 3165 | dorsiger, Tabanus dorsilinea, Tabanus | preying on, Culex quinquefasciatus 1054 |
| Xenopsylla cheopis on, in Ryukyu Islands | Dove cotes, Argas magnus in, in Colombia | rearing of, techniques for 1861 |
| 718 | 245 | reproduction in, effects of sectioning on |
| Dog blood, in Triatomine blood-meals, identifying of 2081 | Down's syndrome, in man, associated with Norwegian scabies 3213 | Dugesia japonica, preying on, Culex pipiens |
| Dog carcasses, Calliphoridae in, in Costa | downsi, Simulium | 339 |
| Rica 2532 | Dracunculus medinensis | Dugesia tigrina |
| Dog dung | control of, vector control for 1803 | preying on |
| Aphodiidae in, in Bangladesh 2192 Scarabaeidae in, in Bangladesh 2192 | in Cyclops spp. | Culex pipiens, and biological control using, in Ontario 2382 |
| Dog feed, diet component for, Spilopsyllus | in Mali 1224 | C. restuans, and biological control |
| cuniculi 2349 | transmission of 1803 | using, in Ontario 2382 |
| Dog heartworm (see Dirofilaria immitis) | man, in Mali 1224 | Daphnia spp. 2382 |
| Dolichopodidae, in livestock farms, in Bulgaria 877 | Drainage of forests, effects on Culicidae of 832 | Simuliidae 2382 Dugesiella anax, bacteria in mouth of 2249 |
| Dolichovespula, in Spain 1967 | of irrigated pastures, to eliminate | Dung |
| Dolichovespula arenaria | mosquito breeding sites 1611 | Aphodiidae in, in Bangladesh 2192 |
| allergens of 1423 | Drainage channels | biological control of 1169 |
| enzymes in 1423, 2540 on man, hypersensitivity to, diagnosis of | Culex quinquefasciatus in, in Texas 3060 mosquito control in, slow-release | Coleoptera in communities of 3183 |
| 2035 | insecticides for 3060 | in Finland 2892 |
| venom of 1423, 2540 | Drainage ditches | Diptera in |
| Dolichovespula maculata | Anopheles claviger in, colonisation by | in California 207 in Netherlands 2503 |
| allergens of 1423 enzymes in 1423, 2540 | A. messeae in, colonisation by 2103 | in Pakistan 2986 |
| on man, hypersensitivity to, diagnosis of | Culex pipiens in, in Honshu 118 | fly control in 2375 |
| 2035 | mosquito control in, growth regulators for | Musca autumnalis in, in California 207 |
| venom of 1423, 2540 | 118 | Onitis spp. in, in Ethiopian region 1966 |

| Oung contd. |
|--|
| Onthophagus spp. in, and biological |
| control using, in Arkansas 2200 Scarabaeidae in |
| in Bangladesh 2192 |
| in Egypt 2156 |
| in Georgia (USA) 1740 |
| Sepsidae in, in Australia 3158 Dung beetle (see Scarabaeidae) |
| Ourabolin (see Nandrolone) |
| lurhami, Armigeres |
| Oursban (see Chlorpyrifos) |
| Dustbins Diptera in, in California 207 |
| Lucilia cuprina in, in California 2873 |
| Outtonella, in, Glossina medicorum, in |
| Upper Volta 2151 luttoni, Culex |
| lux, Sarcophaga (see S. misera) |
| Owellings |
| Aedes aegypti in |
| assessing infestations of 349 in Andhra Pradesh 1069 |
| in Nigeria 3044 |
| in Tamil Nadu 1069 |
| in West Malaysia 1085, 3034 A. albopictus in, in West Malaysia 1085, |
| 3034 |
| A. poicilia in, in Philippines 1312 |
| Aethus indicus in, in Amami Islands 709 Anopheles spp. in |
| in Angola 1641 |
| in Gambia 2098 |
| A. arabiensis in in Nigeria 2101 |
| in Zambia 1656 |
| A. atroparvus in, in Romania 1322 A. balabacensis in, in Sabah 2789 |
| A. campestris in, in West Malaysia 2806 |
| A. culicitacies in, in Pakistan 3062 |
| A. darlingi in, in Brazil 1338 |
| A. funestus in in Cameroon 1074 |
| in Liberia 1046 |
| A. gambiae in in Liberia 1046 |
| in Nigeria 2101 in Yemen 332 |
| in Yemen 332 A. sacharovi in, in Romania 1322 |
| A. stephensi in |
| in Iran 1289 |
| in Tamil Nadu 540 Araneae in, in Nansei Islands 721 |
| arthropod pests in |
| in Canada 1263 in Netherlands 315 |
| Blatta orientalis in, in California 1509 |
| Blattella germanica in |
| in Bermuda 1698 in Illinois 1265 |
| in Indiana 1265 |
| in North Carolina 1003 Calliphoridae in, in Denmark 735 |
| Ceratopogonidae in, in Cayman Islands |
| 1658 Cheiracanthium lawrencei in, in South |
| Africa 3240 |
| Cimex hemipterus in, in Zaïre 989 |
| C. lectularius in, in Iraq 2711 cockroach control in, insecticides for |
| 1003, 2052 |
| Ctenocephalides felis in, in Indiana 1265 Culex quinquefasciatus in, in Philippines |
| 1312 Culicidae in, in Djibouti 1075 |
| Ectobius lapponicus in, in Denmark 753 |
| E. panzeri in, in Denmark 753 Fannia canicularis in, in Oueensland 587 |
| Fannia canicularis in, in Queensland 587 fly control in 1141 |
| Glossina palpalis in, in Congo 1932 |
| Menemerus bivittatus in in California 293 |
| in Florida 293 Monomorium pharaonis in |
| Monomorium pharaonis in in central Europe 235, 236 |
| in Poland 3181 |
| mosquito control in 1057, 1075 |
| DDT for 2806 insecticides for 1564 |
| Musca domestica in |
| in Bermuda 1698 |

```
E.C. 3.1.1.4 (see Phospholipase A<sub>2</sub>)
Dwellings contd.
                                                               E.C. 3.1.1.5 (see Phospholipase B)
   Ommatoiulus moreletii in, in South
                                                               E.C. 3.1.1.6 (see Esterase, acetyl)
       Australia 8
                                                               E.C. 3.1.1.7 (see Esterase, acetyl choline)
   Panstrongvlus megistus in, in Brazil 68,
                                                               E.C. 3.1.3.2 (see Phosphatase, acid)
       1018
   Periplaneta spp. in, in Ryukyu Islands
                                                               E.C. 3.1.3.9 (see Phosphatase, glucose 6-)
                                                               E.C. 3.1.3.12 (see Phosphatase, trehalose)
   P. americana in, in Bermuda 1698
                                                               E.C. 3.2.1.4 (see Cellulase)
                                                               E.C. 3.2.1.14 (see Chitinase)
E.C. 3.2.I.17 (see Lysozyme)
   Phlebotomus spp. in, in Uzbekistan 2137
  P. papatasi in, in USSR 2813
Phoridae in, in USSR 1400
                                                               E.C. 3.2.1.26 (see Fructofuranosidase, \beta-)
   Plexippus paykulli in, in Florida 293
                                                               E.C. 3.2.I.28 (see Trehalase)
  Polistes spp. in, in Texas 2194
Rhipicephalus sanguineus in, in Poland
                                                               E.C. 3.2.1.31 (see Glucuronidase, \beta-)
                                                               E.C. 3.4.12.2 (see Carboxypeptidase A)
E.C. 3.4.12.3 (see Carboxypeptidase B)
       2630, 3195
  Rhodnius prolixus in in El Salvador 74
                                                               E.C. 3.6.1.3 (see Phosphatase, adenosine tri-)
     in Mexico 1278
in Venezuela 73, 2706
                                                               E.C. 4.5.1.1 (see Dehydrochlorinase, DDT-)
E.C. 5.3.1.1 (see Isomerase, triose
   Supella longipalpa in, in Italy 2331
                                                               phosphate)
E.C. 6.3.4.3 (see Synthetase,
   Tapinoma melanocephalum in, in
                                                               E.C. 6.3.4.3 (see Synthetase, formyltetrahydrofolate)
α-Ecdysone (see Cholest-7-en-6-one, 2.3,14,22,25-pentahydroxy-, (2β,3β,5β,22R)-)
α-Ecdysone, 20-hydroxy- (see Cholest-7-en-6-one, 2.3,14,20,22,25-hexahydroxy-,
       Manitoba 2204
   tick control in, acaricides for 2595
   Triatoma barberi in, in Mexico 3023
   T. dimidiata in
                          7/
      in El Salvador
      in Mexico 1278
                                                                    (2\beta, 3\beta, 5\beta, 22R)-)
   T. infestans in
      assessing infestations of 2071
                                                               β-Ecdysone (see Cholest-7-en-6-one, 2,3,14,20,22,25-hexahydroxy-,
     effects of wall plaster on 2338 in Brazil 2077
                                                               (2\beta, 3\beta, 5\beta, 22R)-)

Ecdysones (see Moulting hormones)
   T. protracta in, in USA 2705
                                                               Ecdysterone (see Cholest-7-en-6-one, 2,3,14,20,22,25-hexahydroxy-,
   Triatominae in
      in Brazil 75
                                                                    (2\beta,3\beta,5\beta,22R)-)
      malaria control as affecting 64
dyari, Culiseta morsitans
                                                               echidnina, Echinolaelaps (see Laelaps
Dyscritomyia, taxonomy of 1143
                                                                    echidnina)
                                                               echidnina, Laelaps (Echinolaelaps)
Dysdercus cingulatus, control of, growth regulators for 1231

Dysentery, seasonal incidence of, relation of
                                                               Echidnophaga, on gerbil
Echidnophaga gallinacea
    incidence of synanthropic flies and
                                                                  in USA 1283
                                                                  on Spermophilus beecheyi, in California
    3150
Dyspnea
                                                                       1283
                                                               Echidnophaga murina
   in man
      caused by Grylloidea 2896 caused by Periplaneta 1516
                                                                  in Spain 312
                                                                   on small mammals, in Balearic Islands
Dytiscidae, preying on, Culicidae
                                            2126
                                                                      312
Dytiscus, insect growth regulators in, residues of 800
                                                                  variability in 312
                                                               Echidnophaga myrmecobii
in Australia 500
Earache, in man, caused by Aethus indicus 709
                                                                  on Oryctolagus cuniculus, distribution pattern of 500
earlei, Anopheles
                                                                   seasonal abundance of 500
Earthworm, removal of cattle dung by 913
East Coast fever (see also Theileria parva)
                                                               Echidnophaga perilis
in Australia 500
Eastern equine encephalitis (see
                                                                  on Oryctolagus cuniculus, distribution pattern of 500
    Encephalitis, eastern equine)
Ebola virus, in, Aedes spp., not replicating
                                                                   seasonal abundance of 500
    990
                                                               Echimyidae, Rhodnius pallescens on, in Panama 3024
E.C. 1.1.1.1 (see Dehydrogenase, alcohol)
E.C. 1.1.1.49 (see Dehydrogenase, glucose 6-
phosphate)
E.C. 1.1.1.68 (see Reductase, 5,10-
                                                               Echinolaelaps echidnina (see Laelaps
                                                                    echidnina)
methylenetetrahydrofolate)
E.C. 1.2.1.37 (see Dehydrogenase, octanol)
E.C. 1.5.1.2 (see Reductase, pyrroline-5-
                                                               Echinolaelaps fukienensis
in China 2639
                                                                   on Typhlomys cinereus, in China 2639
                                                                Echinonyssus distinctitarsus
    carboxylate)
                                                                   sp. nov., description of
E.C. 1.5.1.12 (see Dehydrogenase, 1-
                                                                   in China 2235
pyrroline)
E.C. 1.6.2.4 (see Reductase, cytochrome c
                                                                   in Thailand 2235
                                                                  on Callosciurus 2235
on Petaurista 2235
    (reduced nicotinamide adenine
dinucleotide phosphate))
E.C. 1.9.3.1 (see Oxidase, cytochrome)
E.C. 1.11.1.6 (see Catalase)
E.C. 1.16.16.4 (see Oxygenase, tryptophan
                                                               Echinonyssus harpagonis
                                                                  sp. nov., description of in Indonesia 2235
                                                                                                 2235
                                                                  on Callosciurus notatus, in Kalimantan
     5-mono-)
E.C. 2.1.1.13 (see Methyltransferase,
                                                                Echinonyssus lukoschusi
    tetrahydrofolate)
                                                                   sp. nov., description of
E.C. 2.4.1.16 (see Acetylglucosaminyltransf-
                                                                   in Czechoslovakia 2235
    erase, chitin-uridine diphosphate)
                                                                   on Talpa europaea, in Czechoslovakia
E.C. 2.6.1.1 (see Aminotransferase,
                                                                       2235
aspartate) E.C. 2.7.1.1 (see Kinase (phosphorylating),
                                                                Echinonyssus umbonatus
                                                                  sp. nov., description of 2235 in Philippines 2235
    hexo-)
E.C. 2.7.1.32 (see Kinase (phosphorylating),
                                                                  on Hylopetes nigripes, in Philippines
    choline)
                                                                       2235
E.C. 2.7.1.75 (see Kinase (phosphorylating),
                                                               echinus, Aedes
Ectiban (see Permethrin)
    thymidine)
E.C. 2.7.3.3 (see Kinase (phosphorylating),
                                                                Ectobius lapponicus
arginine)
E.C. 2.7.5.1 (see Phosphomutase, glucose)
E.C. 2.7.7.7 (see Nucleotidyltransferase,
                                                                   in Denmark 753
                                                               in dwenings,
Ectobius panzeri
753
                                                                   in dwellings, in Denmark 753
```

deoxyribonucleate)

| Subject Index | | 401 |
|---|--|--|
| Ectobius panzeri contd. | Electrophoresis, polyacrylamide gel, for | Encephalitis, Murray Valley contd. |
| in dwellings, in Denmark 753 | separating components of Loxosceles | virus contd. |
| parasitised by, Brachygaster minutus, in | reclusa venom 291 | vectors of 1291 |
| Denmark 753 | Electrophoresis, starch gel, for studying | Encephalitis, Saint Louis |
| Ectoparasites, weather as affecting 2956 Ectoral (see Fenchlorphos) | mosquito genetics 143 elegans, Centruroides | epidemiology of, review 2409 in Americas 1065 |
| Ectrin | elegans, Leptocera | in California 1850, 1851 |
| against, Haematobia irritans, on cattle | Elephant (African) dung, Scarabaeidae in, in | in Minnesota 1853 |
| 3168 | Kenya 1970 | surveillance for 134 |
| in cattle ear tags 3168 | Elephant, India (see Elephas maximus) | virus |
| Ecuador | elephantis, Haematomyzus | control of 1065 |
| Argas magnus in 245 Culex spp. in, Mallophaga on 1290 | Elephas maximus Haematomyzus elephantis on, in | ecology of 1065 |
| C. penai in 353 | Karnataka 2898 | epidemiology of 1065 in |
| Culicidae in 350 | Ixodidae on, in Assam 48 | Aedes dorsalis, replication of 1578 |
| ecuadoriensis, Rhodnius | Rhipicephalus haemaphysaloides on, in | birds, in Brazil 1050 |
| Eczema in man | Karnataka 2898 eliomys, Gliricoptes | Culex spp. |
| caused by <i>Pediculus capitis</i> 419 | Eliomys quercinus, Myocoptidae on, in | detecting of 3032 |
| caused by Sarcoptes scabiei 419 | Spain 1478 | in Iowa 137 |
| Edema | ellipticus, Macronyssus | C. nigripalpus, in Florida 122, 1301 |
| in cat, caused by Walchia americana | Elliptorhina brunneri, mouthparts in, sense | C. pipiens, transmission of 150, 1577 |
| 2024 in cattle, caused by Simulium | organs on 1833 emersoni, Geomydoecus chihuahuae | C. quinquefasciatus |
| erythrocephalum 1106 | Empusa muscae (see Entomophthora | in Arkansas 3032 |
| in man | muscae) | infectivity of 1852 |
| caused by Ornithodoros coniceps 1431 | Encephalitis, California | C. tarsalis, infectivity of 1852 |
| caused by urticating hairs of | virus | Culicidae |
| Lepidoptera 1736 edentula, Hoplopleura | in Aedes spp., in Canada 2962 | in California 85, 1851 in Peru 1351 |
| educator, Culex | A. communis, transmission of 2962 | fowl, in Florida 1301 |
| edwardsi, Culex | A. diantaeus, in Norway 538 | man |
| Eftolon (see Sulfaphenazole) | A. dorsalis, replication of 1578 | in California 85 |
| Egg production | A. hexodontus, in Norway 538 | in Canada 2964 |
| in fowl effects of carbaryl on 2943 | A. sticticus, in Norway 538 Culicidae | in Florida 122, 1301 in Iowa 137 |
| effects of lice on 2333 | in California 85 | rodents, in Brazil 1050 |
| effects of Ornithonyssus sylviarum on | in New York 147 | Encephalitis, tick-borne |
| 420, 2023 | in Norway 2965 | control of, vector control for 257 |
| Egg yolk, diet component for, Ophyra | Culiseta inornata, transmission of | foci of 257 |
| aenescens 908 Egypt | 2962 man | functioning of 412 virus |
| Culex spp. in, nematodes in 1096 | in Canada 2964 | ecological markers of 2979 |
| C. pipiens in 1349 | in Minnesota 1853 | in |
| viruses in 2362 | in Wisconsin 1853 | Clethrionomys glareolus, titres of |
| Culicidae in, natural enemies of 1039 | Encephalitis, eastern equine | 2215 |
| filariasis in 1096 Musca domestica in 2490 | in Americas 1065 in Dominican Republic 2086 | Dermacentor spp. trans-stadial transmission of 2910 |
| Ornithodoros coniceps in 1431 | virus | transovarial transmission of 2910 |
| Psoroptes equi in, on Asian buffalo 270 | in | Dermancentor andersoni, replication |
| Rift Valley fever in 976, 1349, 2361, | Aedes albopictus, replication of | of, effects of temperature on |
| 2362 | 2760 Culor tannianus in Banama 2368 | 2899 |
| Sarcoptes scablei in on Asian buffalo 270 | Culex taeniopus, in Panama 2368 Culicidae, in Florida 1301 | game 2261 <i>Haemaphysalis</i> spp. |
| on camel 270 | Culiseta melanura, in Connecticut | trans-stadial transmission of 2910 |
| Scarabaeidae in, in dung 2156 | 1896 | transovarial transmission of 2910 |
| Ehrlichia canis | Eptesicus fuscus, in New England | Hyalomma marginatum |
| control of antibiotics for 2591 | 2304 horse | changes in 2979 replication of, effects of |
| vector control for 2591 | in Dominican Republic 2047 | temperature on 2608 |
| in | in Panama 2368 | Ixodes persulcatus |
| Canis lupus, in Florida 200 2591 | livestock, in Canada 2964 | changes in 2979 |
| Canus lupus × C. familiaris, in Florida | man | trans-stadial transmission of 2607 |
| zoo 2591 dog, in Florida zoo 2591 | in Canada 2964 in Florida 1301 | transovarial transmission of 2607 I. ricinus |
| 5,8,11,14-Eicosatetraenoic acid | Myotis spp., in New England 2304 | changes in 2979 |
| (all-Z)- | vectors of 2086 | in Europe 2953 |
| in Culex pipiens diet | Encephalitis, Israel turkey | in Norway 249 |
| antioxidants for 1906 | virus in | in West Germany 2573 infectivity of 2215 |
| requirement for 519 Eidolon helvum, feeding of Glossina through | Culicoides nubeculosus, not | trans-stadial transmission of 2607 |
| wing membranes of 370 | transmitted 182 | transmission of 412, 922 |
| Eimeria tenella, in, Musca domestica, | C. variipennis, not transmitted 182 | transovarial transmission of 2607 |
| dispersal of 3156 | Encephalitis, Japanese | Ixodoidea |
| El Salvador Anopheles albimanus in 1602, 2267, | control of, vector control for 1585 | in Italy 2967 in Norway 2965 |
| 2364 | in | man |
| Rhodnius prolixus in, in dwellings 74 | Culex pipiens, replication of 165 | antibodies to 2600 |
| Triatoma dimidiata in, in dwellings 74 | C. tritaeniorhynchus, overwintering | neurological effects of 2972 |
| EL-919 (see 1H-Benzimidazole, 4-nitro-2- | of 724 | monkey, neurological effects of 2977 |
| (1,1,2,2-tetrafluoroethyl)-6- (trifluoromethyl)-) | vectors of 1584 land use changes as affecting 2695 | Encephalitis, Venezuelan equine in Americas 1065 |
| EL-968 (see Propanamide, N-[2-amino-3- | Encephalitis, Murray Valley | virus |
| nitro-5-(trifluoromethyl)phenyl]-2,2,3,3- | virus | control of 1065 |
| tetrafluoro-) | in | ecology of 1065 |
| elbeli, Araeopsylla Electric conductivity | A communis replication of 2962 | epidemiology of 1065 |
| Electric conductivity in cattle milk, not affected by Hypoderma | A. communis, replication of 2962 A. lineatopennis, transmission of | birds, transport of 2779 |
| bovis 863 | 1323 | Culex opisthopus, in Guatemala |
| in Simulium nyasalandicum breeding | A. vigilax, transmission of 1323 | 1646 |
| water 843 | A. vittiger, transmission of 1323 | Culicidae, in Peru 1351 |
| in Simulium woodi breeding water 843 | Culex annulirostris, transmission of | Rhodnius prolixus, not transmitted 2076 |
| Electrophoresis, use in taxonomy of 2274 | 1323, 1903 | 4010 |

| Incephalitis, western equine | Entomophthora bullata contd. | Equus caballus × E. asinus (see Mule) Erasmia pulchella fritzei |
|--|--|--|
| in Americas 1065 in California 1850 | in contd. Phormia regina, in New York 1411 | in Japan 710 |
| in Minnesota 1853 | P. terraenovae, pathogenicity of 1411 | on man, effects of 710 |
| surveillance for 134 | Entomophthora culicis | Eratyrus mucronatus |
| virus control of 1065 | Phoridae, in Israel 400 | in Brazil 1279 in Venezuela 69 |
| ecology of 1065 | Sciaridae, in Israel 400 | traps for 69 |
| epidemiology of 1065 | Entomophthora muscae, in, Musca | eratyrusiformis, Triatoma |
| In Aedes albopictus | domestica, in Netherlands 2503 Entomophthora tabanivora | erberi, Hybomitra Eremodipus lichtenstein, Siphonaptera on, i |
| persistence of 2760 | sp. nov., description of 2530 | USSR 1031 |
| A. dorsalis, replication of 1578 | in, Tabanus nigrovittatus, in Massachusetts 2530 | Erethizon dorsatum |
| A. hendersoni, transmission of 2394 | Entomophthora virulenta | Dermacentor variabilis on, feeding by 1188 |
| A. melanimon, infectivity of 2970 | in, Calliphora vicina, pathogenicity of 1470 | Eutrichophilus setosus on, in Texas 153 |
| A. trivittatus, infectivity of, strain differences in 2127 | insecticidal activity of secondary | Eretmapodites 2730 |
| Anopheles earlei, transmission of | metabolites of 1470 | in Congo 2739 in Malagasy Republic 2408 |
| Culex peus, not infective 2970 | Entomopoxvirus in | in snail shells, in Nigeria 3045 |
| C. pipiens, not infective 2970 | Chironomus spp. | Rift Valley fever, virus in, in Africa 976 |
| C. quinquefasciatus, not infective 1852 | in California 1136 pathogenicity of 1136 | Eretmapodites hamoni feeding behaviour in 2739 |
| C. restuans, transmission of 152 | Enzymes | in Congo 2739 |
| C. tarsalis | in Apis mellifera venom, review 633 | seasonal abundance of 2739 |
| in California 1884 infectivity of 2970 | isoenzymes, use as genetic markers of 2276 | Eretmapodites quinquevittatus biology of 3058 |
| not transmitted transovarially | Eothenomys custos, Amphipsylla tuta on, in | breeding places of 3058 |
| 2130 refractoriness to 1867 | Yunnan Province 1545 Eothenomys proditor, Amphipsylla | in Kenya 3058 |
| transmission of 152, 813 | quadratoides on, in Yunnan Province | white-eye mutant of 810 Eretmapodites silvestris conchobius |
| Culicidae, in California 85, 1851 | 1545 epactius, Aedes | biology of 3058 |
| Culiseta inornata, transmission of 152 | epanastasis, Culex | breeding places of 3058 |
| C. melanura, in Connecticut 1896 | Ephemeral fever, virus, in, Culicoides spp., | in Kenya 3058 Eretmapodites subsimplicipes |
| equines, in Iowa 137 fowl, in California 1850 | in Kenya 2443 Ephemeroptera | biology of 3058 |
| horse | conference 2894 | breeding places of 3058 |
| in California 85, 1851 in Utah 1302 | filter-feeding in 2300 in ponds, effects of diflubenzuron on 211 | in Kenya 3058 erinacei, Archaeopsylla |
| livestock, in Canada 2964 | production in 2026 | Erinaceus europaeus, Ixodidae on, in Soviel |
| man in Canada 2964 | Simuliidae on, in Ivory Coast 366 Ephestia kuehniella, Aspergillus flavus in, | Far East 1434 Eristalis tenax |
| in Iowa 137 | transmission of 482 | in Spain 1490 |
| Pipilo erythrophthalmus, in | Ephydra cinerea | in tree holes, in Spain 1490 |
| Connecticut 1896 Enderleinellus tamiasciuri | biology of 2533 in USA 2533 | erraticus, Culex erraticus, Ornithodoros |
| in USA 1800 | production in 2533 | eruditus, Cheyletus |
| on Tamiasciurus hudsonicus, in Indiana 1800 | Ephynal (see Vitamin E) Epicauta | Erysipelothrix insidiosa, in, Hyalomma marginatum, loss of virulence of 3196 |
| ndius, Spalangia | in lucerne hay, poisoning of horse by | Erysipelothrix rhusiopathiae (see E. |
| Indosulfan (6,7,8,9,10,10-hexachloro- 1,5,5a,6,9,9a-hexahydro-6,9-methano- | on horse, pathology of 402 | insidiosa) Erythema |
| 2,4,3-benzodioxathiepin 3-oxide) | Epicauta lemniscata, diagnosis of poisoning | in man |
| against Glossina spp. 570 | by 910 Epinephrine ((R)-4-[1-hydroxy-2- | arthropods associated with 659 associated with tick bite 2222 |
| G. fuscipes 2465 | (methylamino)ethyl]-1,2-benzenediol) | caused by Dermanyssus gallinae 3211 |
| G. morsitans 373, 1374 | for treating anaphylaxis to Apis mellifera | caused by Lepidoptera 710 |
| G. palpalis 203, 2465 G. tachinoides 2465 | stings 634 in cattle adrenal gland, <i>Leiurus</i> | caused by urticating hairs of Lepidoptera 1736 |
| in savanna woodland, non-target effects of | quinquestriatus venom stimulating | erythrocephala, Boophthora (see Simulium |
| 1385 non-target effects of 1374 | secretion of 683 Epizootic hemorrhagic disease of deer | erythrocephalum) erythrocephala, Calliphora (see C. vicina) |
| on vegetation, persistence of 203 | virus | erythrocephalum, Simulium (Boophthora) |
| Indotrypanum schaudinni in | cattle, in Colorado 2809 | Erythrosin B, in Musca domestica, light- induced toxicity of 385 |
| Lutzomyia gomezi, infectivity of 2136 | Culicoides variipennis, in Colorado | Escherichia, in, Argas persicus, in Pakistan |
| L. sanguinaria, infectivity of 2136 L. trapidoi, infectivity of 2136 | 2809 Epofenonane (2-ethyl-3-[3-ethyl-5-(4- | 1996 Eserine , in <i>Periplaneta americana</i> , blocking |
| Endrin $((1a\alpha, 2\beta, 2a\beta, 3\alpha, 6\alpha, 6a\beta, 7\beta, 7a\alpha)$ - | ethylphenoxy)pentyl]-2-methyloxirane) | trochanteral hairplate afferents 3013 |
| 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a- | in Blattella germanica, uptake from | Esterase |
| octahydro-2,7:3,6-dimethanonaphth[2,3-b]oxirene) | treated surfaces of 1002 Epoxidase, aldrin | in Aedes aegypti mid-gut, secretion of 1652 |
| against 573 | in Musca domestica 2507, 2508 | in Anopheles, role in insecticide resistance |
| Glossina palpalis 572 Haematobia irritans 1937 | in <i>Phormia regina</i> 2508 in <i>Sarcophaga bullata</i> 2508 | of 2364 in Anopheles aquasalis, genetics of 1913 |
| in Gambusia affinis, uptake and fate of | Eptescopsylla vancouverensis (see | in Anopheles beklemishevi, genetics of |
| 702 ndymion, Phanaeus | Nycteridopsylla vancouverensis) Eptesicus fuscus, eastern equine encephalitis, | in Anopheles messeae, genetics of 2104 |
| ENT-numbers (see AI3-numbers) | virus in, in New England 2304 | in Anopheles punctipennis, |
| Interobacter cloacae, in, Triatoma infestans excreta 2704 | Eptesicus serotinus, Steatonyssus sinicus on, in China 2656 | microevolutionary changes in 806 in Culex pipiens 829 |
| Enterobacteriaceae, in, Blattella germanica, | equi, Bovicola (see Werneckiella equi) | in <i>Lucilia cuprina</i> , inhibited by synergists |
| on ocean-going ships 55 | equi, Chorioptes (see C. bovis) | 1151 |
| Enterocolitis, in horse, caused by <i>Epicauta</i> 402 | equi, Demodex equi, Psoroptes | in Musca domestica, role in diflubenzuro resistance of 903 |
| Entomological collections, abbreviations for | equi, Werneckiella (Bovicola) | isoenzymes, in Culex erraticus 1599 |
| institutions containing 1260 Entomology, medical, book 2317, 2985 | equina, Hippobosca equina, Wilhelmia (see Simulium equinum) | Esterase, acetyl, in Culex tarsalis 831 Esterase, acetyl choline |
| Intomophthora bullata | equinum, Simulium (Wilhelmia) | in Anopheles albimanus, role in insecticio |
| Lucilia sericata, pathogenicity of 1411 | Equus asinus (see Donkey) Equus caballus (see Horse) | resistance of 153 in Culex tarsalis 831 |
| , Famogomony or 1411 | -7 | 0010/1 (01/00/10 00/1 |

| Subject Much | | 403 |
|---|---|--|
| Esterase, acetyl choline contd. | Ethanol | Eulaelaps onoi |
| in guinea-pig lungs, inhibited by | attractant for | habitats of 2582 |
| Dermatophagoides pteronyssinus allergens 2238 | Fannia canicularis 208, 209 Muscina stabulans 208 | hosts of 2582 in Japan 2582 |
| in insects, inhibitors of 2079 | coattractant for | taxonomy of, characters distinguishing E. |
| in Lucilia cuprina, diazinon inhibition of | Musca domestica 208 | stabularis and 2582 |
| 1151 | Muscina stabulans 208 | Eulaelaps oudemansi |
| in Musca domestica | Ethanol, 2-(dimethylamino)-, in Musca | descriptions of 666 |
| interactions with pesticides of 691 organophosphate inhibition of 2938 | domestica cuticle, effects on insecticide absorption of 583 | illustrations of 666 in West Germany 666 |
| in Musca domestica head | Ethene, homopolymer, temephos formulated | in straw, in West Germany 666 |
| inhibition by phenyl methylcarbamates | in pellets of 116 | taxonomy of 666 |
| of 700 | Ethene, chloro- | Eulaelaps silvaticus |
| properties of 390 in <i>Musca domestica</i> thorax, properties of | homopolymer | habitats of 2582 hosts of 2582 |
| 1130 | chlorpyrifos formulated in pellets of | in Japan 2582 |
| in Periplaneta americana stomatogastric | slow-release insecticide formulations in | taxonomy of, characters distinguishing E. |
| nervous system 3011 | 2336 | stabularis and 2582 |
| in <i>Triatoma infestans</i> head, properties of 1541 | Ether, diethyl (see Ethane, 1,1'-oxybis-) | Eulaelaps stabularis descriptions of 666 |
| Esterase, aryl | Ethiopia | illustrations of 666 |
| in Culex tarsalis 831 | Culicidae in 172 | in West Germany 666 |
| in Loxosceles reclusa venom 2662 | leishmaniasis in 836 onchocerciasis in 2452 | in straw, in West Germany 666 |
| isoenzymes, in Aedes aegypti, activity pattern of 1821 | Pediculus capitis in, on man 62 | taxonomy of 666, 2582 Eulalia ornata |
| Esterase, carboxyl | P. humanus in, on man 62 | in Spain 1490 |
| hydrolysis of organophosphates by 1461 | Phlebotomus langeroni in 836 | in tree holes, in Spain 1490 |
| in Anopheles, role in insecticide resistance | Pthirus pubis in, on man 62 | Euoniticellus intermedius |
| of 2364 in Culex tarsalis 831 | Ethiopian region Diptera in, book 3029 | in cattle dung, for fly control 1145, 1154 in dung, for fly control 1169 |
| in insects, not involved in JH degradation | Onitis spp. in, book 1966 | Eupelmidae |
| 1502 | ethiopicus, Culex | parasitising |
| in Loxosceles reclusa venom 2662 | Eubenangee virus | Neostylopyga rhombifolia, in India |
| in <i>Periplaneta americana</i> ganglia, properties of 319 | in Culicoides nubeculosus, replication of | 1268 Periplaneta americana, in India 1268 |
| isoenzymes, in Aedes aegypti, activity | 2995 | eupeus, Mesobuthus |
| pattern of 1821 | C. variipennis, replication of 2995 | Euphorbia kamerunica, Aedes spp. in broken |
| Esterase, choline | Eublaberus, gregariousness in, review 35 | stems of, in Nigeria 334 |
| in Aedes aegypti, activity pattern of 1821 | Eublaberus posticus dominance in 739 | Euproctis, on man, effects of 710 Euproctis chrysorrhoea |
| in cat, inhibited by Vespa orientalis | spacing patterns in 739 | in UK 2196 |
| venom 632 | Eucampsipoda aegyptia | life history of 2196 |
| in cattle blood, insecticide inhibition of | distribution of 394 | on man, lesions caused by 2196 |
| in cattle serum, dichlorvos inhibition of | hosts of 394 in Jordan 394 | Euproctis chrysorrhoea auct. (see E. similis) Euproctis flava, venomous spicules in 1736 |
| 616 | in Saudi Arabia 394 | Euproctis similis |
| in fowl, DDT reducing malathion | on bat, in Saudi Arabia 394 | biology of 461 |
| inhibition of 704 | taxonomy of 394 | control of 461 |
| in <i>Periplaneta americana</i> ganglia, properties of 319 | Eucheyletia bishoppi in USA 1800 | in East Germany 461 in West Germany 461 |
| in Periplaneta americana nervous system, | on Tamias striatus, in Indiana 1800 | on man |
| inhibited by extracts of Parthenium | Eucoila, parasitising, dung-breeding flies, in | conjunctivitis caused by 461 |
| hysterophorus 3247 | California 1724 | dermatitis caused by 461 |
| Esterase, juvenile hormone in Culex pipiens 829 | eucta, Mesopsylla Eucyclops agilis, Coelomomyces iliensis in | Euproctis subflava (see E. flava) Euproctis taiwana |
| in insects, JH degradation by 1502 | 773 | in Japan 710 |
| in Musca domestica, inhibitors of 1393 | Eucyclops serrulatus (see E. agilis) | on man, effects of 710 |
| in Periplaneta americana fat-body 1835 Estigmene acraea, DDT analogues in, | Eugenol (2-methoxy-4-(2-propenyl)phenol) in Musca domestica, toxicity of 2668 | Eupteromalus, preyed on by, Holcocephala fusca, in Virginia 1553 |
| metabolism of 1473 | in Pimpinella anisum 2668 | Euroglyphus, in house dust, interactions |
| Estragole (see Benzene, 1-methoxy-4-(2- | Eugregarina | with other mites of 2563 |
| propenyl)-) | in A. J. Co. Co. Co. | Euroglyphus longior |
| Etacrynic acid ([2,3-dichloro-4-(2-methylene-1-oxobutyl)phenoxy]acetic | Aedes aegypti, in Thailand 1606 A. albopictus, in Thailand 1606 | in Peru 273 in house dust, in Peru 273 |
| acid) | A. chrysolineatus, in Thailand 1606 | Euroglyphus maynei |
| in Musca domestica, inhibiting secretion | Armigeres subalbatus, in Thailand | in Bulgaria 1779 |
| by Malpighian tubules 3178 | 1606 | in Colombia 3225 |
| Etafos (see Phosphorothioic acid, O-(2,4-dichlorophenyl) O-ethyl S-propyl ester) | Eulaelaps arboricola habitats of 2582 | in Czechoslovakia 1456 in Denmark 1781 |
| Ethanamine, 2-chloro-N-(2-chloroethyl)-N- | hosts of 2582 | in Peru 273 |
| methyl- (see Chlormethine) | in Japan 2582 | in USA 1794 |
| Ethanaminium, 2-(acetyloxy)-N,N,N- | taxonomy of, characters distinguishing E. | in house dust |
| trimethyl-, in invertebrates, book 1504 Ethanaminium, 2-hydroxy-N,N,N-trimethyl- | stabularis and 2582 Eulaelaps herbosalis, taxonomy of, synonym | in Bulgaria 1779 in Colombia 3225 |
| (choline) | of E. multisetatus 2582 | in Czechoslovakia 1456 |
| | Eulaelaps hirundinis | in Denmark 1781 |
| in Musca domestica diet, effects on | habitats of 2582 | in Ohio 1794 in Peru 273 |
| sterols of 381 Ethanaminium, N,N,N-trimethyl-2- | hosts of 2582 in Japan 2582 | seasonal abundance of 1779 |
| (phosphonooxy)-, in house-dust mite | taxonomy of, characters distinguishing E. | europaeus, Isometrus (see I. maculatus) |
| allergens 2914 | stabularis and 2582 | Eurotium repens, in, house dust, interactions |
| Ethane, 1,1'-oxybis- against, mylasis-causing flies, on man | Eulaelaps kolpakovae (see E. novus) Eulaelaps multisetatus | with mites of 2565 euryalis, Eyndhovenia |
| 885 | habitats of 2582 | Eurymermis, in, Tabanus laetitinctus, in |
| in Manduca sexta, terminating pupal | hosts of 2582 | Tadzhikistan 1406 |
| diapause 2191 | in Japan 2582 | eurysternus, Haematopinus |
| in Sarcophaga crassipalpis, terminating pupal diapause 2191 | taxonomy of characters distinguishing E. stabularis | Euschoengastia latyshevi (see Ascoschoengastia latyshevi) |
| Ethanethioamide, in Musca domestica, | and 2582 | Euschoengastia peromysci |
| effects on pupariation of 875 | Eulaelaps herbosalis as synonym of | in USA 1424 |
| Ethanimidothioic acid, N- | Eulaclera novus in Bulgaria, not found | on Synaptomys cooperi, in Indiana 1424 |
| [[(methylamino)carbonyl]oxy]-, methyl ester (see Methomyl) | Eulaelaps novus, in Bulgaria, not found | Euschoengastia setosa in USA 1800 |
| | | |

Fatty acids contd.

484 Euschoengastia setosa contd. on Tamiasciurus hudsonicus, in Indiana 1800 Euschoengastia striata in China 1211 seasonal abundance of 1211 Eusimulium aureum control of, growth regulators for 191 in USA 191 Eusimulium pusillum larval development in, effects of temperature on 560 Microsporidia in, effects of temperature on development of 560 Eusimulium vernum usimulium vernum
egg-masses of 1361, 2817
eggs of 1361
fecundity in 2817
in Canada 1111
in UK 2817
in chalk streams, in England 2817
oviposition sites of 2817 Eutamias sibiricus Ascoschoengastia latyshevi on, in China 2638 Chatia hertigi on, in China 2638 Leptotrombidium gemiticulum on, in China 2638 L. subintermedium on, in China 2638 Eutrichophilus setosus in USA 1530 on Erethizon dorsatum, in Texas 1530 Eutrombicula alfreddugesi in USA 2240 on Sciurus carolinensis, in Florida 2240 Eutrombicula splendens in USA 2240 on Didelphis marsupialis, in Florida 2240 Eutrombicula wichmanni, taxonomy of, chaetotaxy 2581
Evania, parasitising, Neostylopyga rhombifolia, in India 1268
Evania antennalis 1268 Evania appendigaster in India 1268 parasitising Neostylopyga rhombifolia, in India 1268 Periplaneta spp., in India 1268
evansi, Anopheles
evertsi, Rhipicephalus
Evolution, role of sexual selection in 1155 ewingi, Geomydoecus ewingi, Radfordia Exanthema, in man, caused by Simuliidae 992 excavatum, Hyalomma anatolicum excavatus, Proanastatus exclamans, Polistes excrucianas, Polistes excrucians, Aedes exigens, Prosimulium exigua, Haematobia irritans exigua, Lyperosia (see Haematobia irritans exigua) eximia, Lucilia (Phaenicia) eximia, Phaenicia (see Lucilia eximia) expansus, Geomydoecus exuberans, Sarcophaga Eyach virus characterization of 2572, 2971
hosts of 2971
in, *Ixodes ricinus*, in West Germany
2572, 2971

Eylais, insect growth regulators in, residues
of 800 Eyndhovenia euryalis in Japan 282 taxonomy of 282 Eyndhovenia euryalis euryalis, descriptions Eyndhovenia euryalis euryalis, descriptions of 282
Facey's Paddock virus, in, Culicidae, in Queensland 3084
facilis, Meringis fagineus, Culicoides
Fagus sylvatica, Tabanidae associated with, in France 1684
fahrenholzi, Androlaelaps
faini. Pteragarus

faini, Pteracarus Falco sparverius

Lardoglyphus falconidus in nests of, in New York 276

Falco sparverius contd. mites in nests of, in New York 1991 falconidus, Lardoglyphus falculata, Sarcophaga (see S. argyrostoma) fallax, Sergentomyia Famid (see Dioxacarb) Famphur (O-[4-[(dimethylamino)sulfonyl]phenyll O,O-dimethyl phosphorothioate) against Amblyomma americanum, on cattle 2553 A. maculatum 1192 on cattle 2553 Boophilus annulatus, on cattle 2553
B. microplus, on cattle 2553
Damalinia bovis, on cattle 2702 Haemaphysalis longicornis, on cattle 3197 Haematopinus eurysternus, on cattle 2702 Linognathus vituli, on cattle 2702 formulations of, slow-release bolus 1192 in cattle, toxicity of 2702 in cattle-rumen bolus 2553 Fannia control of 2874 in cattle dung, intraspecific competition in 1695 Fannia canicularis
attractants for 208, 209
biology of 1141
control of, insecticides for 296 in Australia 587 in Bulgaria 877 in Netherlands 624, 2503 in Netherlands 624, 2503
in Spain 1490
in UK 1141, 2853
in USA 207
in dung, in Netherlands 2503
in dwellings, in Queensland 587
in livestock farms, in Bulgaria 877
in mink dung, in Netherlands 624
in solid waste, in California 207
in tree holes, in Spain 1490
on cattle, in UK 2853
swarming in 587 Fannia leucosticta
in Netherlands 624
in mink dung, in Netherlands
Fannia pusio, egg-hatch in 965 Fannia scalaris biology of 1141 control of, insecticides for 2494 in UK 1141 in USA 2494 in fowl dung, in Kentucky 2494 adults of, larval fat-body persisting in adults of, larval fat-body persisting in 586
in Irish Republic 902
in Northern Ireland 902
in cattle dung, in Australia 1681
Farallon virus, in, Ornithodoros denmarki, in North America 2974
farauti, Anopheles
fariai, Telenomus
farinae, Dermatophagoides
Farm huildings fly control in 2853 Farm buildings, fly control in 2853 Farmers' lung role of dust mites in 2634 storage mites causing reactions similar to Farnesol (see 2,6,10-Dodecatrien-1-ol, 3,7,11-trimethyl-)
fasciata, Dichelacera fasciatus, Nosopsyllus fasciatus, Oncopeltus Fasciola hepatica in, Lymnaea truncatula, in Irish Republic 2293 vectors of, predation of 2293
fasciolatus, Tityus trivittatus
fascipennis, Culicoides
fatigans, Culex (see C. quinquefasciatus)
fatigans, Culex pipiens (see C. quinquefasciatus) Fatty acids in Culex pipiens diet, requirement for 519 in grain mites 2020 in Mermithidae, and in hosts 2820

in Musca domestica cuticle, role in

insecticide resistance of 1162

in Periplaneta americana diet, incorporation into hemolymph glycerides of 317 in Tyrophagus putrescentiae, incorporation of 1,3-butanediol into Febantel (dimethyl [[2-[(methoxyacetyl)amino]-4-(phenylthio)phenyl]carbonimidoyl]biscarwith trichlorphon 2477 Feedlots Leptocera vagans in in Oklahoma 3155 in Texas 2161 Felicola felis, in USA 57 felis, Ctenocephalides Felis domesticus (see Cat) felis, Felicola Fenbutatin oxide (hexakis(2-methyl-2phenylpropyl)distannoxane) against ainst
Psoroptes ovis
on cattle 1452 on sheep 2555
Fenchlorphos (O,O-dimethyl O-(2,4,5trichlorophenyl) phosphorothioate) against Blattaria 316 Blattella germanica, in dwellings 1698
Demodex canis, on dog 940, 944
Diptera, in pig dung 376
Haemaphysalis longicornis, on cattle Musca domestica, in cattle sheds 2515 Periplaneta americana, in dwellings 1698 pests of livestock 2281
Sarcoptes scabiei, on dog 940
in cattle sheds, persistence of 2515
Fenethacarb (3,5-diethylphenyl methylcarbamate) in fowl, toxicity of 2256

Fenitrothion (O,O-dimethyl O-(3-methyl-4nitrophenyl) phosphorothioate) against Acdes spp. 529
A. aegypti 1063
A. cantans 803
Anopheles spp. 1322
A. aconitus 1583, 1586, 1892
A. balabacensis 2789
Blattella germanica 1513
in dwellings 1003
Cules spp. in pigwaste lagoon Culex spp., in pig-waste lagoons 1070 C. gelidus 2771 C. pipiens 3074 Culicidae 1582, 2398 Menacanthus stramineus, on fowl 1532 Menopon gallinae, on fowl 1532
Musca domestica 2852
formulations of, with oil 3074
in Aedes aegypti, inhibition of larval
negative phototaxis by 346
in Apis mellifera, toxicity of 163
in Asian buffelo in Asian buffalo in Asian buffalo
effects on skin of 3249
toxicity of 1229
in Boophilus microplus, effects on
oviposition of 2598
in Trichoptera, toxicity of 803
resistance to, in
Anopheles spp. 2364
Musca domestica 212
in Japan 2869
with lindane against Argas persic with lindane, against, Argas persicus, in fowl houses 640 with malathion, in Asian buffalo, toxicity of 1229 with tetramethrin, against, Blattella germanica, in restaurants 749 germanica, in restaurants
Fennoscandia
Blattaria in 51
Culicidae in 1086
Dermaptera in 51
Orthoptera in 51
Fenpropanate (see Fenpropathrin)
Fenpropathrin (cyano(3phenoxyphenyl)methyl 2,2,3,3tetramethylcyclopropanecarboxylate) in insects, metabolism of 1466

| Fenpropathrin contd. | Filarioidea contd. | Flea infestations contd. |
|--|---|--|
| in plants, metabolism of 1466 in soil, degradation of 1466 | in contd. Culex quinquefasciatus, susceptibility to | in sheep 2044 |
| in vertebrates, metabolism of 1466 | 2427 | fletcheri, Gahrliepia fletcheri, Leptotrombidium |
| insecticidal activity of enantiomers of | Culicidae | Flit MLO |
| 1465 | avoidance of immune responses by | against, Aedes taeniorhynchus, in |
| Fenthion (O,O-dimethyl O-[3-methyl-4- | 2306 | temporary pools 1895 |
| (methylthio)phenyl] phosphorothioate) | infectivity of, genetics of 1817 | in Hydrophilus triangularis, toxicity of |
| against Aedes aegypti 801, 1909 | transmission of 2950 Tabanidae, transmission of 2950 | in <i>Tropisternus lateralis</i> , toxicity of 1854 |
| A. sollicitans 1615 | vectors of, land use changes as affecting | Flood-control channels |
| A. vexans 1615 | 2695 | Chironomidae in |
| Anopheles spp. 1322 | Filariol (see Bromophos-ethyl) | diel drift of 2491 |
| A. stephensi 1909 Culex gelidus 2771 | Films, unimolecular of lecithins | in California 1859 |
| C. pipiens 3074 | against | Culicidae in, in California 1859 |
| C. quinquefasciatus 801, 1329, 1909 | Aedes spp. 469 | midge control in, insect growth regulators for 1859 |
| Damalinia bovis, on cattle 2702 | Culicidae 1560 | mosquito control in, insect growth |
| Gasterophilus spp., on horse 3141 Glossina fuscipes 2465 | Finch arthropod parasites of, detecting of 669 | regulators for 1859 |
| G. palpalis 2465 | pest control on 669 | Florida |
| G. tachinoides 2465 | Finland | Aedes hendersoni in, in tree holes 1623 |
| Haemaphysalis longicornis, on cattle | Anopheles beklemishevi in 1581, 2104, | A. taeniorhynchus in 148, 1095 |
| 3197 Haematopinus eurysternus, on cattle | 2759 A. messeae in 1581, 2104, 2759 | Anopheles crucians in 141 natural enemies of 1309 |
| 2702 | Blattaria in 51 | A. quadrimaculatus in 141 |
| Hypoderma spp., on cattle 575, 2838 | Brachycera in 2728 | Culex spp. in 1308 |
| Linognathus vituli, on cattle 2702 | Ceratophyllus spp. in, on man 3026 | C. erraticus in 141 |
| Musca domestica 2852, 2869 in cattle sheds 2515 | Coleoptera in in cattle dung 636 | C. nigripalpus in 12, 3049 |
| Rhinoestrus purpureus, on horse 3141 | in dung 2892 | Viruses in 122, 1301 Culicidae in 1331, 3059 |
| formulations of, with oil 3074 | Culicidae in 541, 1086, 1916 | Culicoides barbosai in, on man 2440 |
| in Apis mellifera, toxicity of 163 | Cynomya mortuorum in, on Lepus 2881 | C. mississippiensis in, on man 2440, |
| in cattle residues of 433 | Dermaptera in 51 | 2808 Deinocerites cancer in 1095 |
| safety during pregnancy of 434 | entomological literature from 2947 entomologists in 2727 | Democernes cancer in 1095 Dermacentor variabilis in 258 |
| toxicity of 2702 | Lipoptena cervi in 1943, 1952 | Geomydoecus scleritus in, on Geomys |
| in cattle sheds, persistence of 2515 | on wolf 2859 | 58 |
| in Toxorhynchites rutilus, toxicity of 801 | medical entomology in 2289 | Heteropoda venatoria in 1223 |
| resistance to, in Boophilus microplus, in Brazil 2616 | Nematocera in 2728 Orthoptera in 51 | Menemerus bivittatus in, in dwellings 293 |
| Culex tarsalis, in California 1858 | pesticide sales in 3243 | Plexippus paykulli in, in dwellings 293 |
| Culicidae, in Utah 1300 | Simulium spp. in 3125 | Rhipicephalus sanguineus in |
| Fenvalerate (cyano(3-phenoxyphenyl)methyl | veterinary entomology in 2289 | on dog 2591 |
| 4-chloro-α-(1-methylethyl)benzeneace- tate) | fischeri, Lutzomyia (Pintomyia) fischeri, Pintomyia (see Lutzomyia fischeri) | on zoo wolf 2591 Simulium slossonae in, sporozoites in |
| | | |
| against | Fish | 365 |
| against Aedes spp. 1225 | Bacillus thuringiensis in, not pathogenic | Siolimyia amazonica in 603 |
| Aedes spp. 1225 Blattella germanica 1225, 2052 | Bacillus thuringiensis in, not pathogenic 551 | Siolimyia amazonica in 603 Stomoxys calcitrans in, in dairies 888 |
| Aedes spp. 1225 Blattella germanica 1225, 2052 Cimex lectularius 1225 | Bacillus thuringiensis in, not pathogenic 551 DDT analogues in, accumulation of | Siolimyia amazonica in 603 Stomoxys calcitrans in, in dairies 888 Trombiculidae in 2240 |
| Aedes spp. 1225 Blattella germanica 1225, 2052 Cimex lectularius 1225 Glossina palpalis 203 | Bacillus thuringiensis in, not pathogenic 551 DDT analogues in, accumulation of 1473 | Siolimyia amazonica in 603 Stomoxys calcitrans in, in dairies 888 Trombiculidae in 2240 Vespula squamosa 1176 |
| Aedes spp. 1225 Blattella germanica 1225, 2052 Cimex lectularius 1225 Glossina palpalis 203 Musca domestica 1225 Ornithonyssus sylviarum, on fowl | Bacillus thuringiensis in, not pathogenic 551 DDT analogues in, accumulation of 1473 endosulfan in, toxicity of 1385 in ponds, effects of larvicidal oils on | Siolimyia amazonica in 603 Stomoxys calcitrans in, in dairies 888 Trombiculidae in 2240 Vespula squamosa 1176 Wyeomyia vanduzeei in 337, 1095 natural enemies of 1055 |
| Aedes spp. 1225 Blattella germanica 1225, 2052 Cimex lectularius 1225 Glossina palpalis 203 Musca domestica 1225 Ornithonyssus sylviarum, on fowl 2928 | Bacillus thuringiensis in, not pathogenic 551 DDT analogues in, accumulation of 1473 endosulfan in, toxicity of 1385 in ponds, effects of larvicidal oils on 1605 | Siolimyia amazonica in 603 Stomoxys calcitrans in, in dairies 888 Trombiculidae in 2240 Vespula squamosa 1176 Wyeomyia vanduzeei in 337, 1095 natural enemies of 1055 floridensis, Chaetopsylla |
| Aedes spp. 1225 Blattella germanica 1225, 2052 Cimex lectularius 1225 Glossina palpalis 203 Musca domestica 1225 Ornithonyssus sylviarum, on fowl 2928 conformation of 1468 | Bacillus thuringiensis in, not pathogenic 551 DDT analogues in, accumulation of 1473 endosulfan in, toxicity of 1385 in ponds, effects of larvicidal oils on 1605 in rivers, effects of DDT on 968 | Siolimyia amazonica in 603 Stomoxys calcitrans in, in dairies 888 Trombiculidae in 2240 Vespula squamosa 1176 Wyeomyia vanduzeei in 337, 1095 natural enemies of 1055 floridensis, Chaetopsylla Flower vases |
| Aedes spp. 1225 Blattella germanica 1225, 2052 Cimex lectularius 1225 Glossina palpalis 203 Musca domestica 1225 Ornithonyssus sylviarum, on fowl 2928 conformation of 1468 development of 701 | Bacillus thuringiensis in, not pathogenic 551 DDT analogues in, accumulation of 1473 endosulfan in, toxicity of 1385 in ponds, effects of larvicidal oils on 1605 | Siolimyia amazonica in 603 Stomoxys calcitrans in, in dairies 888 Trombiculidae in 2240 Vespula squamosa 1176 Wyeomyia vanduzeei in 337, 1095 natural enemies of 1055 floridensis, Chaetopsylla |
| Aedes spp. 1225 Blattella germanica 1225, 2052 Cimex lectularius 1225 Glossina palpalis 203 Musca domestica 1225 Ornithonyssus sylviarum, on fowl 2928 conformation of 1468 development of 701 in insects, metabolism of 1466 in plants, metabolism of 1466 | Bacillus thuringiensis in, not pathogenic 551 DDT analogues in, accumulation of 1473 endosulfan in, toxicity of 1385 in ponds, effects of larvicidal oils on 1605 in rivers, effects of DDT on 968 mirex in, residues of 299 preying on, Aedes aegypti 1063 temephos avoidance by 3117 | Siolimyia amazonica in 603 Stomoxys calcitrans in, in dairies 888 Trombiculidae in 2240 Vespula squamosa 1176 Wyeomyia vanduzeei in 337, 1095 natural enemies of 1055 floridensis, Chaetopsylla Flower vases Aedes spp. in, in Sabah 3169 A. aegypti in, in Martinique 2782 Fluorescent antibody technique |
| Aedes spp. 1225 Blattella germanica 1225, 2052 Cimex lectularius 1225 Glossina palpalis 203 Musca domestica 1225 Ornithonyssus sylviarum, on fowl 2928 conformation of 1468 development of 701 in insects, metabolism of 1466 in plants, metabolism of 1466 in ponds, effects on predatory insects of | Bacillus thuringiensis in, not pathogenic 551 DDT analogues in, accumulation of 1473 endosulfan in, toxicity of 1385 in ponds, effects of larvicidal oils on 1605 in rivers, effects of DDT on 968 mirex in, residues of 299 preying on, Aedes aegypti 1063 temephos avoidance by 3117 Flanders virus | Siolimyia amazonica in 603 Stomoxys calcitrans in, in dairies 888 Trombiculidae in 2240 Vespula squamosa 1176 Wyeomyia vanduzeei in 337, 1095 natural enemies of 1055 floridensis, Chaetopsylla Flower vases Aedes spp. in, in Sabah 3169 A. aegypti in, in Martinique 2782 Fluorescent antibody technique for detecting dengue virus in Aedes |
| Aedes spp. 1225 Blattella germanica 1225, 2052 Cimex lectularius 1225 Glossina palpalis 203 Musca domestica 1225 Ornithonyssus sylviarum, on fowl 2928 conformation of 1468 development of 701 in insects, metabolism of 1466 in plants, metabolism of 1466 in ponds, effects on predatory insects of 98 | Bacillus thuringiensis in, not pathogenic 551 DDT analogues in, accumulation of 1473 endosulfan in, toxicity of 1385 in ponds, effects of larvicidal oils on 1605 in rivers, effects of DDT on 968 mirex in, residues of 299 preying on, Aedes aegypti 1063 temephos avoidance by 3117 Flanders virus in | Siolimyia amazonica in 603 Stomoxys calcitrans in, in dairies 888 Trombiculidae in 2240 Vespula squamosa 1176 Wyeomyia vanduzeei in 337, 1095 natural enemies of 1055 floridensis, Chaetopsylla Flower vases Acdes spp. in, in Sabah 3169 A. aegypti in, in Martinique 2782 Fluorescent antibody technique for detecting dengue virus in Aedes albopictus 1904 |
| Aedes spp. 1225 Blattella germanica 1225, 2052 Cimex lectularius 1225 Glossina palpalis 203 Musca domestica 1225 Ornithonyssus sylviarum, on fowl 2928 conformation of 1468 development of 701 in insects, metabolism of 1466 in plants, metabolism of 1466 in ponds, effects on predatory insects of | Bacillus thuringiensis in, not pathogenic 551 DDT analogues in, accumulation of 1473 endosulfan in, toxicity of 1385 in ponds, effects of larvicidal oils on 1605 in rivers, effects of DDT on 968 mirex in, residues of 299 preying on, Aedes aegypti 1063 temephos avoidance by 3117 Flanders virus | Siolimyia amazonica in 603 Stomoxys calcitrans in, in dairies 888 Trombiculidae in 2240 Vespula squamosa 1176 Wyeomyia vanduzeei in 337, 1095 natural enemies of 1055 floridensis, Chaetopsylla Flower vases Aedes spp. in, in Sabah 3169 A. aegypti in, in Martinique 2782 Fluorescent antibody technique for detecting dengue virus in Aedes |
| Aedes spp. 1225 Blattella germanica 1225, 2052 Cimex lectularius 1225 Glossina palpalis 203 Musca domestica 1225 Ornithonyssus sylviarum, on fowl 2928 conformation of 1468 development of 701 in insects, metabolism of 1466 in plants, metabolism of 1466 in ponds, effects on predatory insects of 98 in soil, degradation of 1466 in vertebrates, metabolism of 1466 in vertebrates, metabolism of 1466 in secticidal activity of enantiomers of | Bacillus thuringiensis in, not pathogenic 551 DDT analogues in, accumulation of 1473 endosulfan in, toxicity of 1385 in ponds, effects of larvicidal oils on 1605 in rivers, effects of DDT on 968 mirex in, residues of 299 preying on, Aedes aegypti 1063 temephos avoidance by 3117 Flanders virus in Aedes albopictus, replication of 2760 Coquillettidia perturbans, in Connecticut 1898 | Siolimyia amazonica in 603 Stomoxys calcitrans in, in dairies 888 Trombiculidae in 2240 Vespula squamosa 1176 Wyeomyia vanduzeei in 337, 1095 natural enemies of 1055 floridensis, Chaetopsylla Flower vases Aedes spp. in, in Sabah 3169 A. aegypti in, in Martinique 2782 Fluorescent antibody technique for detecting dengue virus in Aedes albopictus 1904 for detecting Saint Louis encephalitis virus in Culex 3032 for identifying dengue virus in Aedes cell |
| Aedes spp. 1225 Blattella germanica 1225, 2052 Cimex lectularius 1225 Glossina palpalis 203 Musca domestica 1225 Ornithonyssus sylviarum, on fowl 2928 conformation of 1468 development of 701 in insects, metabolism of 1466 in plants, metabolism of 1466 in ponds, effects on predatory insects of 98 in soil, degradation of 1466 in vertebrates, metabolism of 1466 in vertebrates, metabolism of 1466 insecticidal activity of enantiomers of 1465 | Bacillus thuringiensis in, not pathogenic 551 DDT analogues in, accumulation of 1473 endosulfan in, toxicity of 1385 in ponds, effects of larvicidal oils on 1605 in rivers, effects of DDT on 968 mirex in, residues of 299 preying on, Aedes aegypti 1063 temephos avoidance by 3117 Flanders virus in Aedes albopictus, replication of 2760 Coquillettidia perturbans, in Connecticut 1898 Culex spp., in Connecticut 1898 | Siolimyia amazonica in 603 Stomoxys calcitrans in, in dairies 888 Trombiculidae in 2240 Vespula squamosa 1176 Wyeomyia vanduzeei in 337, 1095 natural enemies of 1055 floridensis, Chaetopsylla Flower vases Acdes spp. in, in Sabah 3169 A. aegypti in, in Martinique 2782 Fluorescent antibody technique for detecting dengue virus in Aedes albopictus 1904 for detecting Saint Louis encephalitis virus in Culex 3032 for identifying dengue virus in Aedes cell lines 1645 |
| Aedes spp. 1225 Blattella germanica 1225, 2052 Cimex lectularius 1225 Glossina palpalis 203 Musca domestica 1225 Ornithonyssus sylviarum, on fowl 2928 conformation of 1468 development of 701 in insects, metabolism of 1466 in plants, metabolism of 1466 in ponds, effects on predatory insects of 98 in soil, degradation of 1466 in vertebrates, metabolism of 1466 on vegetation, persistence of 203 | Bacillus thuringiensis in, not pathogenic 551 DDT analogues in, accumulation of 1473 endosulfan in, toxicity of 1385 in ponds, effects of larvicidal oils on 1605 in rivers, effects of DDT on 968 mirex in, residues of 299 preying on, Aedes aegypti 1063 temephos avoidance by 3117 Flanders virus in Aedes albopictus, replication of 2760 Coquillettidia perturbans, in Connecticut 1898 Culex spp., in Connecticut 1898 Culiseta melanura, in Connecticut | Siolimyia amazonica in 603 Stomoxys calcitrans in, in dairies 888 Trombiculidae in 2240 Vespula squamosa 1176 Wyeomyia vanduzeei in 337, 1095 natural enemies of 1055 floridensis, Chaetopsylla Flower vases Aedes spp. in, in Sabah 3169 A. aegypti in, in Martinique 2782 Fluorescent antibody technique for detecting dengue virus in Aedes albopictus 1904 for detecting Saint Louis encephalitis virus in Culex 3032 for identifying dengue virus in Aedes cell lines 1645 fluviatilis, Aedes |
| Aedes spp. 1225 Blattella germanica 1225, 2052 Cimex lectularius 1225 Glossina palpalis 203 Musca domestica 1225 Ornithonyssus sylviarum, on fowl 2928 conformation of 1468 development of 701 in insects, metabolism of 1466 in plants, metabolism of 1466 in ponds, effects on predatory insects of 98 in soil, degradation of 1466 in vertebrates, metabolism of 1466 in vertebrates, metabolism of 1466 insecticidal activity of enantiomers of 1465 | Bacillus thuringiensis in, not pathogenic 551 DDT analogues in, accumulation of 1473 endosulfan in, toxicity of 1385 in ponds, effects of larvicidal oils on 1605 in rivers, effects of DDT on 968 mirex in, residues of 299 preying on, Aedes aegypti 1063 temephos avoidance by 3117 Flanders virus in Aedes albopictus, replication of 2760 Coquillettidia perturbans, in Connecticut 1898 Culex spp., in Connecticut 1898 Culiseta melanura, in Connecticut 1898 flava, Euproctis | Siolimyia amazonica in 603 Stomoxys calcitrans in, in dairies 888 Trombiculidae in 2240 Vespula squamosa 1176 Wyeomyia vanduzeei in 337, 1095 natural enemies of 1055 floridensis, Chaetopsylla Flower vases Acdes spp. in, in Sabah 3169 A. aegypti in, in Martinique 2782 Fluorescent antibody technique for detecting dengue virus in Aedes albopictus 1904 for detecting Saint Louis encephalitis virus in Culex 3032 for identifying dengue virus in Aedes cell lines 1645 fluviatilis, Aedes fluviatilis, Anopheles FMC 33297 (see Permethrin) |
| Aedes spp. 1225 Blattella germanica 1225, 2052 Cimex lectularius 1225 Glossina palpalis 203 Musca domestica 1225 Ornithonyssus sylviarum, on fowl 2928 conformation of 1468 development of 701 in insects, metabolism of 1466 in plants, metabolism of 1466 in ponds, effects on predatory insects of 98 in soil, degradation of 1466 in vertebrates, metabolism of 1465 on vegetation, persistence of 203 ferox, Onthophagus ferox, Psorophora Ferret (Mustela furo) | Bacillus thuringiensis in, not pathogenic 551 DDT analogues in, accumulation of 1473 endosulfan in, toxicity of 1385 in ponds, effects of larvicidal oils on 1605 in rivers, effects of DDT on 968 mirex in, residues of 299 preying on, Aedes aegypti 1063 temephos avoidance by 3117 Flanders virus in Aedes albopictus, replication of 2760 Coquillettidia perturbans, in Connecticut 1898 Culex spp., in Connecticut 1898 Culiseta melanura, in Connecticut 1898 flava, Euproctis flava, Haemaphysalis | Siolimyia amazonica in 603 Stomoxys calcitrans in, in dairies 888 Trombiculidae in 2240 Vespula squamosa 1176 Wyeomyia vanduzeei in 337, 1095 natural enemies of 1055 floridensis, Chaetopsylla Flower vases Aedes spp. in, in Sabah 3169 A. aegypti in, in Martinique 2782 Fluorescent antibody technique for detecting dengue virus in Aedes albopictus 1904 for detecting Saint Louis encephalitis virus in Culex 3032 for identifying dengue virus in Aedes cell lines 1645 fluviatilis, Aedes fluviatilis, Aedes fluviatilis, Seedes fluviatilis, Seedes fluviatilis, Seedes fluviatilis, Seedes fluviatilis, Seedes |
| Aedes spp. 1225 Blattella germanica 1225, 2052 Cimex lectularius 1225 Glossina palpalis 203 Musca domestica 1225 Ornithonyssus sylviarum, on fowl 2928 conformation of 1468 development of 701 in insects, metabolism of 1466 in plants, metabolism of 1466 in ponds, effects on predatory insects of 98 in soil, degradation of 1466 in vertebrates, metabolism of 203 ferox, Onthophagus ferox, Psorophora Ferret (Mustela furo) Otodectes cynotis on, in England 415 | Bacillus thuringiensis in, not pathogenic 551 DDT analogues in, accumulation of 1473 endosulfan in, toxicity of 1385 in ponds, effects of larvicidal oils on 1605 in rivers, effects of DDT on 968 mirex in, residues of 299 preying on, Aedes aegypti 1063 temephos avoidance by 3117 Flanders virus in Aedes albopictus, replication of 2760 Coquillettidia perturbans, in Connecticut 1898 Culex spp., in Connecticut 1898 Culiseta melanura, in Connecticut 1898 flava, Euproctis flava, Haemaphysalis flavescens, Aedes | Siolimyia amazonica in 603 Stomoxys calcitrans in, in dairies 888 Trombiculidae in 2240 Vespula squamosa 1176 Wyeomyia vanduzeei in 337, 1095 natural enemies of 1055 floridensis, Chaetopsylla Flower vases Aedes spp. in, in Sabah 3169 A. aegypti in, in Martinique 2782 Fluorescent antibody technique for detecting dengue virus in Aedes albopictus 1904 for detecting Saint Louis encephalitis virus in Culex 3032 for identifying dengue virus in Aedes cell lines 1645 fluviatilis, Aedes fluviatilis, Anopheles FMC 33297 (see Permethrin) FMC 45498 (see Cyclopropanecarboxylic acid, 3-(2,2-dibromoethenyl)-2,2- |
| Aedes spp. 1225 Blattella germanica 1225, 2052 Cimex lectularius 1225 Glossina palpalis 203 Musca domestica 1225 Ornithonyssus sylviarum, on fowl 2928 conformation of 1468 development of 701 in insects, metabolism of 1466 in plants, metabolism of 1466 in ponds, effects on predatory insects of 98 in soil, degradation of 1466 in vertebrates, metabolism of 1466 in vertebrates, metabolism of 1466 in secticidal activity of enantiomers of 1465 on vegetation, persistence of 203 ferox, Onthophagus ferox, Psorophora Ferret (Mustela furo) Otodectes cynotis on, in England 415 Ferriamicide (see Mirex) | Bacillus thuringiensis in, not pathogenic 551 DDT analogues in, accumulation of 1473 endosulfan in, toxicity of 1385 in ponds, effects of larvicidal oils on 1605 in rivers, effects of DDT on 968 mirex in, residues of 299 preying on, Aedes aegypti 1063 temephos avoidance by 3117 Flanders virus in Aedes albopictus, replication of 2760 Coquillettidia perturbans, in Connecticut 1898 Culex spp., in Connecticut 1898 Culex and analogues of 1898 Culex and analogues of 1898 flava, Euproctis flava, Haemaphysalis flavescens, Aedes flavescens, Cnidocampa (see Monema | Siolimyia amazonica in 603 Stomoxys calcitrans in, in dairies 888 Trombiculidae in 2240 Vespula squamosa 1176 Wyeomyia vanduzeei in 337, 1095 natural enemies of 1055 floridensis, Chaetopsylla Flower vases Aedes spp. in, in Sabah 3169 A. aegypti in, in Martinique 2782 Fluorescent antibody technique for detecting dengue virus in Aedes albopictus 1904 for detecting Saint Louis encephalitis virus in Culex 3032 for identifying dengue virus in Aedes cell lines 1645 fluviatilis, Aedes fluviatilis, Anopheles FMC 33297 (see Permethrin) FMC 45498 (see Cyclopropanecarboxylic acid, 3-(2,2-dibromoethenyl)-2,2- dimethyl-, cyano(3- |
| Aedes spp. 1225 Blattella germanica 1225, 2052 Cimex lectularius 1225 Glossina palpalis 203 Musca domestica 1225 Ornithonyssus sylviarum, on fowl 2928 conformation of 1468 development of 701 in insects, metabolism of 1466 in plants, metabolism of 1466 in ponds, effects on predatory insects of 98 in soil, degradation of 1466 in vertebrates, metabolism of 203 ferox, Onthophagus ferox, Onthophagus ferox, Psorophora Ferret (Mustela furo) Otodectes cynotis on, in England 415 Ferriamicide (see Mirex) Fever in cattle, caused by Theileria 2225 | Bacillus thuringiensis in, not pathogenic 551 DDT analogues in, accumulation of 1473 endosulfan in, toxicity of 1385 in ponds, effects of larvicidal oils on 1605 in rivers, effects of DDT on 968 mirex in, residues of 299 preying on, Aedes aegypti 1063 temephos avoidance by 3117 Flanders virus in Aedes albopictus, replication of 2760 Coquillettidia perturbans, in Connecticut 1898 Culex spp., in Connecticut 1898 Culex spp., in Connecticut 1898 Culesta melanura, in Connecticut 1898 flava, Euproctis flava, Haemaphysalis flavescens, Aedes flavescens, Aedes flavescens, Monema (Cnidocampa) | Siolimyia amazonica in 603 Stomoxys calcitrans in, in dairies 888 Trombiculidae in 2240 Vespula squamosa 1176 Wyeomyia vanduzeei in 337, 1095 natural enemies of 1055 floridensis, Chaetopsylla Flower vases Aedes spp. in, in Sabah 3169 A. aegypti in, in Martinique 2782 Fluorescent antibody technique for detecting dengue virus in Aedes albopictus 1904 for detecting Saint Louis encephalitis virus in Culex 3032 for identifying dengue virus in Aedes cell lines 1645 fluviatilis, Aedes fluviatilis, Piccoloropanecarboxylic acid, 3-(2,2-dibromoethenyl)-2,2- dimethyl-, cyano(3- phenoxyphenyl)methyl ester, [1R- [1a(S*),3a]]-) |
| Aedes spp. 1225 Blattella germanica 1225, 2052 Cimex lectularius 1225 Glossina palpalis 203 Musca domestica 1225 Ornithonyssus sylviarum, on fowl 2928 conformation of 1468 development of 701 in insects, metabolism of 1466 in plants, metabolism of 1466 in ponds, effects on predatory insects of 98 in soil, degradation of 1466 in vertebrates, metabolism of 203 ferox, Onthophagus ferox, Psorophora Ferret (Mustela furo) Otodectes cynotis on, in England 415 Ferriamicide (see Mirex) Fever in cattle, caused by Theileria 2225 in horse, caused by Epicauta 402 | Bacillus thuringiensis in, not pathogenic 551 DDT analogues in, accumulation of 1473 endosulfan in, toxicity of 1385 in ponds, effects of larvicidal oils on 1605 in rivers, effects of DDT on 968 mirex in, residues of 299 preying on, Aedes aegypti 1063 temephos avoidance by 3117 Flanders virus in Aedes albopictus, replication of 2760 Coquillettidia perturbans, in Connecticut 1898 Culex spp., in Connecticut 1898 Culex and analogues and connecticut 1898 flava, Euproctis flava, Haemaphysalis flavescens, Aedes flavescens, Cnidocampa (see Monema flavescens) flavescens, Monema (Cnidocampa) flavescens, Pantala | Siolimyia amazonica in 603 Stomoxys calcitrans in, in dairies 888 Trombiculidae in 2240 Vespula squamosa 1176 Wyeomyia vanduzeei in 337, 1095 natural enemies of 1055 floridensis, Chaetopsylla Flower vases Aedes spp. in, in Sabah 3169 A. aegypti in, in Martinique 2782 Fluorescent antibody technique for detecting dengue virus in Aedes albopictus 1904 for detecting Saint Louis encephalitis virus in Culex 3032 for identifying dengue virus in Aedes cell lines 1645 fluviatilis, Aedes fluviatilis, Anopheles FMC 33297 (see Permethrin) FMC 45498 (see Cyclopropanecarboxylic acid, 3-(2,2-dibromoethenyl)-2,2- dimethyl-, cyano(3- phenoxyphenyl)methyl ester, [1R- [1α(S*),3α]]-) foliaceus, Onthophagus |
| Aedes spp. 1225 Blattella germanica 1225, 2052 Cimex lectularius 1225 Glossina palpalis 203 Musca domestica 1225 Ornithonyssus sylviarum, on fowl 2928 conformation of 1468 development of 701 in insects, metabolism of 1466 in plants, metabolism of 1466 in ponds, effects on predatory insects of 98 in soil, degradation of 1466 in vertebrates, metabolism of 1466 in secticidal activity of enantiomers of 1465 on vegetation, persistence of 203 ferox, Onthophagus ferox, Psorophora Ferret (Mustela furo) Otodectes cynotis on, in England 415 Ferriamicide (see Mirex) Fever in cattle, caused by Theileria 2225 in horse, caused by Epicauta 402 in man | Bacillus thuringiensis in, not pathogenic 551 DDT analogues in, accumulation of 1473 endosulfan in, toxicity of 1385 in ponds, effects of larvicidal oils on 1605 in rivers, effects of DDT on 968 mirex in, residues of 299 preying on, Aedes aegypti 1063 temephos avoidance by 3117 Flanders virus in Aedes albopictus, replication of 2760 Coquillettidia perturbans, in Connecticut 1898 Culex spp., in Connecticut 1898 Culiseta melanura, in Connecticut 1898 flava, Euproctis flava, Haemaphysalis flavescens, Aedes flavescens, Cnidocampa (see Monema flavescens, Monema (Cnidocampa) flavescens, Pantala flavirostris, Anopheles | Siolimyia amazonica in 603 Stomoxys calcitrans in, in dairies 888 Trombiculidae in 2240 Vespula squamosa 1176 Wyeomyia vanduzeei in 337, 1095 natural enemies of 1055 floridensis, Chaetopsylla Flower vases Acdes spp. in, in Sabah 3169 A. aegypti in, in Martinique 2782 Fluorescent antibody technique for detecting dengue virus in Aedes albopictus 1904 for detecting Saint Louis encephalitis virus in Culex 3032 for identifying dengue virus in Aedes cell lines 1645 fluviatilis, Aedes fluviatilis, Anopheles FMC 33297 (see Permethrin) FMC 45498 (see Cyclopropanecarboxylic acid, 3-(2,2-dibromoethenyl)-2,2- dimethyl-, cyano(3- phenoxyphenyl)methyl ester, [1R- [1α(S*),3α]]- foliaceus, Onthophagus folliculorum, Demodex |
| Aedes spp. 1225 Blattella germanica 1225, 2052 Cimex lectularius 1225 Glossina palpalis 203 Musca domestica 1225 Ornithonyssus sylviarum, on fowl 2928 conformation of 1468 development of 701 in insects, metabolism of 1466 in plants, metabolism of 1466 in ponds, effects on predatory insects of 98 in soil, degradation of 1466 in vertebrates, metabolism of 1465 on vegetation, persistence of 203 ferox, Onthophagus ferox, Psorophora Ferret (Mustela furo) Otodectes cynotis on, in England 415 Ferriamicide (see Mirex) Fever in cattle, caused by Theileria 2225 in horse, caused by Epicauta 402 in man caused by Culicidae 546 | Bacillus thuringiensis in, not pathogenic 551 DDT analogues in, accumulation of 1473 endosulfan in, toxicity of 1385 in ponds, effects of larvicidal oils on 1605 in rivers, effects of DDT on 968 mirex in, residues of 299 preying on, Aedes aegypti 1063 temephos avoidance by 3117 Flanders virus in Aedes albopictus, replication of 2760 Coquillettidia perturbans, in Connecticut 1898 Culex spp., in Connecticut 1898 Culex and analogues and connecticut 1898 flava, Euproctis flava, Haemaphysalis flavescens, Aedes flavescens, Cnidocampa (see Monema flavescens) flavescens, Monema (Cnidocampa) flavescens, Pantala | Siolimyia amazonica in 603 Stomoxys calcitrans in, in dairies 888 Trombiculidae in 2240 Vespula squamosa 1176 Wyeomyia vanduzeei in 337, 1095 natural enemies of 1055 floridensis, Chaetopsylla Flower vases Aedes spp. in, in Sabah 3169 A. aegypti in, in Martinique 2782 Fluorescent antibody technique for detecting dengue virus in Aedes albopictus 1904 for detecting Saint Louis encephalitis virus in Culex 3032 for identifying dengue virus in Aedes cell lines 1645 fluviatilis, Aedes fluviatilis, Anopheles FMC 33297 (see Permethrin) FMC 45498 (see Cyclopropanecarboxylic acid, 3-(2,2-dibromoethenyl)-2,2- dimethyl-, cyano(3- phenoxyphenyl)methyl ester, [1R- [1α(S*),3α]]-) foliaceus, Onthophagus |
| Aedes spp. 1225 Blattella germanica 1225, 2052 Cimex lectularius 1225 Glossina palpalis 203 Musca domestica 1225 Ornithonyssus sylviarum, on fowl 2928 conformation of 1468 development of 701 in insects, metabolism of 1466 in plants, metabolism of 1466 in ponds, effects on predatory insects of 98 in soil, degradation of 1466 in vertebrates, metabolism of 1466 in vertebrates, metabolism of 1466 in secticidal activity of enantiomers of 1465 on vegetation, persistence of 203 ferox, Onthophagus ferox, Psorophora Ferret (Mustela furo) Otodectes cynotis on, in England 415 Ferriamicide (see Mirex) Fever in cattle, caused by Theileria 2225 in horse, caused by Epicauta 402 in man caused by Ornithodoros coniceps 1431 Ficalbia, in Malagasy Republic 2408 | Bacillus thuringiensis in, not pathogenic 551 DDT analogues in, accumulation of 1473 endosulfan in, toxicity of 1385 in ponds, effects of larvicidal oils on 1605 in rivers, effects of DDT on 968 mirex in, residues of 299 preying on, Aedes aegypti 1063 temephos avoidance by 3117 Flanders virus in Aedes albopictus, replication of 2760 Coquillettidia perturbans, in Connecticut 1898 Culex spp., in Connecticut 1898 Culex ablance in Connecticut 1898 Culex and analogue in Connecticut 1898 flava, Haemaphysalis flava, Haemaphysalis flavescens, Aedes flavescens, Cnidocampa (see Monema flavescens) flavescens, Monema (Cnidocampa) flavescens, Pantala flavirostris, Anopheles Flavobacterium, in, Argas persicus, in Pakistan 1996 flavofemoratus, Tabanus bromius (see T. | Siolimyia amazonica in 603 Stomoxys calcitrans in, in dairies 888 Trombiculidae in 2240 Vespula squamosa 1176 Wyeomyia vanduzeei in 337, 1095 natural enemies of 1055 floridensis, Chaetopsylla Flower vases Aedes spp. in, in Sabah 3169 A. aegypti in, in Martinique 2782 Fluorescent antibody technique for detecting dengue virus in Aedes albopictus 1904 for detecting Saint Louis encephalitis virus in Culex 3032 for identifying dengue virus in Aedes cell lines 1645 fluviatilis, Anopheles FMC 33297 (see Permethrin) FMC 45498 (see Cyclopropanecarboxylic acid, 3-(2,2-dibromoethenyl)-2,2- dimethyl-, cyano(3- phenoxyphenyl)methyl ester, [1R- [1α(S^*),3α]]- foliaceus, Onthophagus folliculorum, Demodex Fonsecia celestae, taxonomy of, chaetotaxy 2581 fontinella, Cuterebra |
| Aedes spp. 1225 Blattella germanica 1225, 2052 Cimex lectularius 1225 Glossina palpalis 203 Musca domestica 1225 Ornithonyssus sylviarum, on fowl 2928 conformation of 1468 development of 701 in insects, metabolism of 1466 in plants, metabolism of 1466 in ponds, effects on predatory insects of 98 in soil, degradation of 1466 in vertebrates, metabolism of 1466 in vertebrates, metabolism of 1466 in secticidal activity of enantiomers of 1465 on vegetation, persistence of 203 ferox, Onthophagus ferox, Psorophora Ferret (Mustela furo) Otodectes cynotis on, in England 415 Ferriamicide (see Mirex) Fever in cattle, caused by Theileria 2225 in horse, caused by Epicauta 402 in man caused by Culicidae 546 caused by Ornithodoros coniceps 1431 Ficalbia, in Malagasy Republic 2408 Ficam (see Bendiocarb) | Bacillus thuringiensis in, not pathogenic 551 DDT analogues in, accumulation of 1473 endosulfan in, toxicity of 1385 in ponds, effects of larvicidal oils on 1605 in rivers, effects of DDT on 968 mirex in, residues of 299 preying on, Aedes aegypti 1063 temephos avoidance by 3117 Flanders virus in Aedes albopictus, replication of 2760 Coquillettidia perturbans, in Connecticut 1898 Culex spp., in Connecticut 1898 Culex spp., in Connecticut 1898 flava, Euproctis flava, Haemaphysalis flavescens, Aedes flavescens, Cnidocampa (see Monema flavescens) flavescens, Monema (Cnidocampa) flavescens, Monema (Cnidocampa) flavescens, Pantala flavirostris, Anopheles Flavobacterium, in, Argas persicus, in Pakistan 1996 flavofemoratus, Tabanus bromius (see T. bromius) | Siolimyia amazonica in 603 Stomoxys calcitrans in, in dairies 888 Trombiculidae in 2240 Vespula squamosa 1176 Wyeomyia vanduzeei in 337, 1095 natural enemies of 1055 floridensis, Chaetopsylla Flower vases Aedes spp. in, in Sabah 3169 A aegypti in, in Martinique 2782 Fluorescent antibody technique for detecting dengue virus in Aedes albopictus 1904 for detecting Saint Louis encephalitis virus in Culex 3032 for identifying dengue virus in Aedes cell lines 1645 fluviatilis, Aedes fluviatilis, Anopheles FMC 33297 (see Permethrin) FMC 45498 (see Cyclopropanecarboxylic acid, 3-(2,2-dibromoethenyl)-2,2- dimethyl-, cyano(3- phenoxyphenyl)methyl ester, [1R- [1a(\$^*),3a]]-) foliaceus, Onthophagus folliculorum, Demodex Fonsecia celestae, taxonomy of, chaetotaxy 2581 Fontinella, Cuterebra Food establishments, pest control in 450 |
| Aedes spp. 1225 Blattella germanica 1225, 2052 Cimex lectularius 1225 Glossina palpalis 203 Musca domestica 1225 Ornithonyssus sylviarum, on fowl 2928 conformation of 1468 development of 701 in insects, metabolism of 1466 in plants, metabolism of 1466 in ponds, effects on predatory insects of 98 in soil, degradation of 1466 in vertebrates, metabolism of 1466 in ponds, metabolism of | Bacillus thuringiensis in, not pathogenic 551 DDT analogues in, accumulation of 1473 endosulfan in, toxicity of 1385 in ponds, effects of larvicidal oils on 1605 in rivers, effects of DDT on 968 mirex in, residues of 299 preying on, Aedes aegypti 1063 temephos avoidance by 3117 Flanders virus in Aedes albopictus, replication of 2760 Coquillettidia perturbans, in Connecticut 1898 Culex spp., in Connecticut 1898 Culex spp., in Connecticut 1898 Culesta melanura, in Connecticut 1898 flava, Euproctis flava, Haemaphysalis flavescens, Aedes flavescens, Andocampa (see Monema flavescens, Monema (Cnidocampa) flavescens, Monema (Cnidocampa) flavescens, Monema (Cnidocampa) flavescens, Pantala flavirostris, Anopheles Flavobacterium, in, Argas persicus, in Pakistan 1996 flavofemoratus, Tabanus bromius (see T. bromius) flavolimbatus, Philonthus | Siolimyia amazonica in 603 Stomoxys calcitrans in, in dairies 888 Trombiculidae in 2240 Vespula squamosa 1176 Wyeomyia vanduzeei in 337, 1095 natural enemies of 1055 floridensis, Chaetopsylla Flower vases Aedes spp. in, in Sabah 3169 A. aegypti in, in Martinique 2782 Fluorescent antibody technique for detecting dengue virus in Aedes albopictus 1904 for detecting Saint Louis encephalitis virus in Culex 3032 for identifying dengue virus in Aedes cell lines 1645 fluviatilis, Aedes fluviatilis, Aedes fluviatilis, Aedes fluviatilis, Aeopheles FMC 33297 (see Permethrin) FMC 45498 (see Cyclopropanecarboxylic acid, 3-(2,2-dibromoethenyl)-2,2- dimethyl-, cyano(3- phenoxyphenyl)methyl ester, [1R- [1a(S*),3a]]-) foliaceus, Onthophagus folliculorum, Demodex Fonsecia celestae, taxonomy of, chaetotaxy 2581 fontinella, Cuterebra Food establishments, pest control in 450 Food-handling premises, insect control in, |
| Aedes spp. 1225 Blattella germanica 1225, 2052 Cimex lectularius 1225 Glossina palpalis 203 Musca domestica 1225 Ornithonyssus sylviarum, on fowl 2928 conformation of 1468 development of 701 in insects, metabolism of 1466 in plants, metabolism of 1466 in ponds, effects on predatory insects of 98 in soil, degradation of 1466 in vertebrates, metabolism of 1466 in vertebrates, metabolism of 1466 in secticidal activity of enantiomers of 1465 on vegetation, persistence of 203 ferox, Onthophagus ferox, Psorophora Ferret (Mustela furo) Otodectes cynotis on, in England 415 Ferriamicide (see Mirex) Fever in cattle, caused by Theileria 2225 in horse, caused by Epicauta 402 in man caused by Culicidae 546 caused by Ornithodoros coniceps 1431 Ficalbia, in Malagasy Republic 2408 Ficam (see Bendiocarb) | Bacillus thuringiensis in, not pathogenic 551 DDT analogues in, accumulation of 1473 endosulfan in, toxicity of 1385 in ponds, effects of larvicidal oils on 1605 in rivers, effects of DDT on 968 mirex in, residues of 299 preying on, Aedes aegypti 1063 temephos avoidance by 3117 Flanders virus in Aedes albopictus, replication of 2760 Coquillettidia perturbans, in Connecticut 1898 Culex spp., in Connecticut 1898 Culiseta melanura, in Connecticut 1898 flava, Euproctis flava, Haemaphysalis flavescens, Aedes flavescens, Cnidocampa (see Monema flavescens, Monema (Cnidocampa) flavescens, Pantala flavirostris, Anopheles Flavobacterium, in, Argas persicus, in Pakistan 1996 flavofemoratus, Tabanus bromius (see T. bromius) flavolimbatus, Philonthus flavolimbatus, Philonthus flavopictus, Aedes Flea (see Siphonaptera) | Siolimyia amazonica in 603 Stomoxys calcitrans in, in dairies 888 Trombiculidae in 2240 Vespula squamosa 1176 Wyeomyia vanduzeei in 337, 1095 natural enemies of 1055 floridensis, Chaetopsylla Flower vases Aedes spp. in, in Sabah 3169 A aegypti in, in Martinique 2782 Fluorescent antibody technique for detecting dengue virus in Aedes albopictus 1904 for detecting Saint Louis encephalitis virus in Culex 3032 for identifying dengue virus in Aedes cell lines 1645 fluviatilis, Aedes fluviatilis, Anopheles FMC 33297 (see Permethrin) FMC 45498 (see Cyclopropanecarboxylic acid, 3-(2,2-dibromoethenyl)-2,2- dimethyl-, cyano(3- phenoxyphenyl)methyl ester, [1R- [1a(\$^*),3a]]-) foliaceus, Onthophagus folliculorum, Demodex Fonsecia celestae, taxonomy of, chaetotaxy 2581 Fontinella, Cuterebra Food establishments, pest control in 450 |
| Aedes spp. 1225 Blattella germanica 1225, 2052 Cimex lectularius 1225 Glossina palpalis 203 Musca domestica 1225 Ornithonyssus sylviarum, on fowl 2928 conformation of 1468 development of 701 in insects, metabolism of 1466 in plants, metabolism of 1466 in ponds, effects on predatory insects of 98 in soil, degradation of 1466 in vertebrates, metabolism of 1465 on vegetation, persistence of 203 ferox, Onthophagus ferox, Psorophora Ferret (Mustela furo) Otodectes cynotis on, in England 415 Ferriamicide (see Mirex) Fever in cattle, caused by Theileria 2225 in horse, caused by Epicauta 402 in man caused by Ornithodoros coniceps 1431 Ficalbia, in Malagasy Republic 2408 Ficam (see Bendiocarb) Ficus carica (see Fig) Fig (Ficus carica) Fig orchards, Aedes sierrensis in, dispersal of 3094 | Bacillus thuringiensis in, not pathogenic 551 DDT analogues in, accumulation of 1473 endosulfan in, toxicity of 1385 in ponds, effects of larvicidal oils on 1605 in rivers, effects of DDT on 968 mirex in, residues of 299 preying on, Aedes aegypti 1063 temephos avoidance by 3117 Flanders virus in Aedes albopictus, replication of 2760 Coquillettidia perturbans, in Connecticut 1898 Culex spp., in Connecticut 1898 Culiseta melanura, in Connecticut 1898 flava, Euproctis flava, Haemaphysalis flavescens, Aedes flavescens, Cnidocampa (see Monema flavescens, Monema (Cnidocampa) flavescens, Pantala flavirostris, Anopheles Flavobacterium, in, Argas persicus, in Pakistan 1996 flavofemoratus, Tabanus bromius (see T. bromius) flavolimbatus, Philonthus flavopictus, Aedes Flea (see Siphonaptera) Flea infestations | Siolimyia amazonica in 603 Stomoxys calcitrans in, in dairies 888 Trombiculidae in 2240 Vespula squamosa 1176 Wyeomyia vanduzeei in 337, 1095 natural enemies of 1055 floridensis, Chaetopsylla Flower vases Aedes spp. in, in Sabah 3169 A. aegypti in, in Martinique 2782 Fluorescent antibody technique for detecting dengue virus in Aedes albopictus 1904 for detecting Saint Louis encephalitis virus in Culex 3032 for identifying dengue virus in Aedes cell lines 1645 fluviatilis, Aedes fluviatilis, Aedes fluviatilis, Aeopheles FMC 33297 (see Permethrin) FMC 45498 (see Cyclopropanecarboxylic acid, 3-(2,2-dibromoethenyl)-2,2- dimethyl-, cyano(3- phenoxyphenyl)methyl ester, [1R- [1a(S*),3a]]-) foliaceus, Onthophagus folliculorum, Demodex Fonsecia celestae, taxonomy of, chaetotaxy 2581 fontinella, Cuterebra Food establishments, pest control in 450 Food-handling premises, insect control in, traps for 466 Food production, vector-borne diseases and |
| Aedes spp. 1225 Blattella germanica 1225, 2052 Cimex lectularius 1225 Glossina palpalis 203 Musca domestica 1225 Ornithonyssus sylviarum, on fowl 2928 conformation of 1468 development of 701 in insects, metabolism of 1466 in plants, metabolism of 1466 in ponds, effects on predatory insects of 98 in soil, degradation of 1466 in vertebrates, metabolism of 1466 in vertebrates of 1466 in vertebrates, metabolism of 1466 in ponds, effects on predatory insects of 203 ferox, Onthophagus ferox, Psorophora Ferret (Mustela furo) Otodectes cynotis on, in England 415 Ferriamicide (see Mirex) Fever in cattle, caused by Theileria 2225 in horse, caused by Theileria 2225 in horse, caused by Epicauta 402 in man caused by Culicidae 546 caused by Ornithodoros coniceps 1431 Ficalbia, in Malagasy Republic 2408 Ficalbia, in Malagasy Republic 2408 Ficar (see Bendiocarb) Ficus carica (see Fig) Fig (ficus carica) Fig orchards, Aedes sierrensis in, dispersal of 3094 Figites, parasitising, dung-breeding flies, in | Bacillus thuringiensis in, not pathogenic 551 DDT analogues in, accumulation of 1473 endosulfan in, toxicity of 1385 in ponds, effects of larvicidal oils on 1605 in rivers, effects of DDT on 968 mirex in, residues of 299 preying on, Aedes aegypti 1063 temephos avoidance by 3117 Flanders virus in Aedes albopictus, replication of 2760 Coquillettidia perturbans, in Connecticut 1898 Culex spp., in Connecticut 1898 Culex spp., in Connecticut 1898 Culesta melanura, in Connecticut 1898 flava, Euproctis flava, Haemaphysalis flavescens, Aedes flavescens, Cnidocampa (see Monema flavescens, Cnidocampa (see Monema flavescens, Monema (Cnidocampa) flavescens, Pantala flavirostris, Anopheles Flavobacterium, in, Argas persicus, in Pakistan 1996 flavofemoratus, Tabanus bromius (see T. bromius) flavolimbatus, Philonthus flavopictus, Aedes Flea (see Siphonaptera) Flea infestations in cat 718, 768 | Siolimyia amazonica in 603 Stomoxys calcitrans in, in dairies 888 Trombiculidae in 2240 Vespula squamosa 1176 Wyeomyia vanduzeei in 337, 1095 natural enemies of 1055 floridensis, Chaetopsylla Flower vases Aedes spp. in, in Sabah 3169 A. aegypti in, in Martinique 2782 Fluorescent antibody technique for detecting dengue virus in Aedes albopictus 1904 for detecting Saint Louis encephalitis virus in Culex 3032 for identifying dengue virus in Aedes cell lines 1645 fluviatilis, Aedes fluviatilis, Aedes fluviatilis, Anopheles FMC 33297 (see Permethrin) FMC 45498 (see Cyclopropanecarboxylic acid, 3-(2,2-dibromoethenyl)-2,2- dimethyl-, cyano(3- phenoxyphenyl)methyl ester, [1R- [1a(\$^*),3a]]-) foliaceus, Onthophagus folliculorum, Demodex Fonsecia celestae, taxonomy of, chaetotaxy 2581 fontinella, Cuterebra Food establishments, pest control in 450 Food-handling premises, insect control in, traps for 466 Food production, vector-borne diseases and 301 Foodstuffs |
| Aedes spp. 1225 Blattella germanica 1225, 2052 Cimex lectularius 1225 Glossina palpalis 203 Musca domestica 1225 Ornithonyssus sylviarum, on fowl 2928 conformation of 1468 development of 701 in insects, metabolism of 1466 in plants, metabolism of 1466 in ponds, effects on predatory insects of 98 in soil, degradation of 1466 in vertebrates, metabolism of 1466 in secticidal activity of enantiomers of 1465 on vegetation, persistence of 203 ferox, Onthophagus ferox, Onthophagus ferox, Psorophora Ferret (Mustela furo) Otodectes cynotis on, in England 415 Ferriamicide (see Mirex) Fever in cattle, caused by Theileria 2225 in horse, caused by Epicauta 402 in man caused by Culicidae 546 caused by Ornithodoros coniceps 1431 Ficalbia, in Malagasy Republic 2408 Ficam (see Bendiocarb) Ficus carica (see Fig) Fig (Ficus carica) Fig orchards, Aedes sierrensis in, dispersal of 3094 Figites, parasitising, dung-breeding flies, in California 1724 | Bacillus thuringiensis in, not pathogenic 551 DDT analogues in, accumulation of 1473 endosulfan in, toxicity of 1385 in ponds, effects of larvicidal oils on 1605 in rivers, effects of DDT on 968 mirex in, residues of 299 preying on, Aedes aegypti 1063 temephos avoidance by 3117 Flanders virus in Aedes albopictus, replication of 2760 Coquillettidia perturbans, in Connecticut 1898 Culex spp., in Connecticut 1898 Culiseta melanura, in Connecticut 1898 flava, Euproctis flava, Haemaphysalis flavescens, Aedes flavescens, Cnidocampa (see Monema flavescens, Monema (Cnidocampa) flavescens, Pantala flavirostris, Anopheles Flavobacterium, in, Argas persicus, in Pakistan 1996 flavofemoratus, Tabanus bromius (see T. bromius) flavolimbatus, Philonthus flavopictus, Aedes Flea (see Siphonaptera) Flea infestations | Siolimyia amazonica in 603 Stomoxys calcitrans in, in dairies 888 Trombiculidae in 2240 Vespula squamosa 1176 Wyeomyia vanduzeei in 337, 1095 natural enemies of 1055 floridensis, Chaetopsylla Flower vases Aedes spp. in, in Sabah 3169 A. aegypti in, in Martinique 2782 Fluorescent antibody technique for detecting dengue virus in Aedes albopictus 1904 for detecting Saint Louis encephalitis virus in Culex 3032 for identifying dengue virus in Aedes cell lines 1645 fluviatilis, Aedes fluviatilis, Anopheles FMC 33297 (see Permethrin) FMC 45498 (see Cyclopropanecarboxylic acid, 3-(2,2-dibromoethenyl)-2,2- dimethyl-, cyano(3- phenoxyphenyl)methyl ester, [1R- [1a(S*),3a]]-) foliaceus, Onthophagus folliculorum, Demodex Fonsecia celestae, taxonomy of, chaetotaxy 2581 fontinella, Cuterebra Food establishments, pest control in 450 Food-handling premises, insect control in, traps for 466 Food production, vector-borne diseases and 301 Foodstuffs Monomorium pharaonis in 460 |
| Aedes spp. 1225 Blattella germanica 1225, 2052 Cimex lectularius 1225 Glossina palpalis 203 Musca domestica 1225 Ornithonyssus sylviarum, on fowl 2928 conformation of 1468 development of 701 in insects, metabolism of 1466 in plants, metabolism of 1466 in ponds, effects on predatory insects of 98 in soil, degradation of 1466 in vertebrates, metabolism of 1466 in vertebrates of 203 ferox, Onthophagus fer | Bacillus thuringiensis in, not pathogenic 551 DDT analogues in, accumulation of 1473 endosulfan in, toxicity of 1385 in ponds, effects of larvicidal oils on 1605 in rivers, effects of DDT on 968 mirex in, residues of 299 preying on, Aedes aegypti 1063 temephos avoidance by 3117 Flanders virus in Aedes albopictus, replication of 2760 Coquillettidia perturbans, in Connecticut 1898 Culex spp., in Connecticut 1898 Culex spp., in Connecticut 1898 Culiseta melanura, in Connecticut 1898 flava, Euproctis flava, Haemaphysalis flavescens, Aedes flavescens, Ondocampa (see Monema flavescens, Indocampa) flavescens, Monema (Cnidocampa) flavescens, Pantala flavirostris, Anopheles Flavobacterium, in, Argas persicus, in Pakistan 1996 flavofemoratus, Tabanus bromius (see T. bromius) flavolimbatus, Philonthus flavopictus, Aedes Flea (see Siphonaptera) Flea infestations in cat 718, 768 in domestic animals 1262 in fowl 1288 | Siolimyia amazonica in 603 Stomoxys calcitrans in, in dairies 888 Trombiculidae in 2240 Vespula squamosa 1176 Wyeomyia vanduzeei in 337, 1095 natural enemies of 1055 floridensis, Chaetopsylla Flower vases Aedes spp. in, in Sabah 3169 A. aegypti in, in Martinique 2782 Fluorescent antibody technique for detecting dengue virus in Aedes albopictus 1904 for detecting Saint Louis encephalitis virus in Culex 3032 for identifying dengue virus in Aedes cell lines 1645 fluviatilis, Aedes fluviatilis, Aedes fluviatilis, Aedes fluviatilis, Aeopheles FMC 33297 (see Permethrin) FMC 45498 (see Cyclopropanecarboxylic acid, 3-(2,2-dibromoethenyl)-2,2- dimethyl-, cyano(3- phenoxyphenyl)methyl ester, [1R- [1a(S*),3a]]-) foliaceus, Onthophagus folliculorum, Demodex Fonsecia celestae, taxonomy of, chaetotaxy 2581 fontinella, Cuterebra Food establishments, pest control in 450 Food-handling premises, insect control in, traps for 466 Food production, vector-borne diseases and 301 Foodstuffs Monomorium pharaonis in 460 Supella longipalpa in, in Italy 479 Forcipomyia, in Cayman Islands 1658 |
| Aedes spp. 1225 Blattella germanica 1225, 2052 Cimex lectularius 1225 Glossina palpalis 203 Musca domestica 1225 Ornithonyssus sylviarum, on fowl 2928 conformation of 1468 development of 701 in insects, metabolism of 1466 in plants, metabolism of 1466 in plants, metabolism of 1466 in ponds, effects on predatory insects of 98 in soil, degradation of 1466 in vertebrates, metabolism of 1466 in vertebrates, metabolism of 1466 in secticidal activity of enantiomers of 1465 on vegetation, persistence of 203 ferox, Onthophagus ferox, Psorophora Ferret (Mustela furo) Otodectes cynotis on, in England 415 Ferriamicide (see Mirex) Fever in cattle, caused by Theileria 2225 in horse, caused by Epicauta 402 in man caused by Ornithodoros coniceps 1431 Ficalbia, in Malagasy Republic 2408 Ficam (see Bendiocarb) Ficus carica (see Fig) Fig (Ficus carica) Fig orchards, Aedes sierrensis in, dispersal of 3094 Figites, parasitising, dung-breeding flies, in California 1724 Fijit Culicoides belkini in 1097 domestic animals in, arthropod parasites | Bacillus thuringiensis in, not pathogenic 551 DDT analogues in, accumulation of 1473 endosulfan in, toxicity of 1385 in ponds, effects of larvicidal oils on 1605 in rivers, effects of DDT on 968 mirex in, residues of 299 preying on, Aedes aegypti 1063 temephos avoidance by 3117 Flanders virus in Aedes albopictus, replication of 2760 Coquillettidia perturbans, in Connecticut 1898 Culex spp., in Connecticut 1898 Culiseta melanura, in Connecticut 1898 Ava, Euproctis flava, Haemaphysalis flavescens, Aedes flavescens, Cnidocampa (see Monema flavescens, Pantala flavirostris, Anopheles Flavobacterium, in, Argas persicus, in Pakistan 1996 flavofemoratus, Tabanus bromius (see T. bromius) flavolimbatus, Philonthus flavopictus, Aedes Flea (see Siphonaptera) Flea infestations in cat 718, 768 in dog 718, 768 in domestic animals 1262 in fowl 1288 in horse 1495 | Siolimyia amazonica in 603 Stomoxys calcitrans in, in dairies 888 Trombiculidae in 2240 Vespula squamosa 1176 Wyeomyia vanduzeei in 337, 1095 natural enemies of 1055 floridensis, Chaetopsylla Flower vases Acdes spp. in, in Sabah 3169 A. aegypti in, in Martinique 2782 Fluorescent antibody technique for detecting dengue virus in Aedes albopictus 1904 for detecting Saint Louis encephalitis virus in Culex 3032 for identifying dengue virus in Aedes cell lines 1645 fluviatilis, Aedes fluviatilis, Anopheles FMC 33297 (see Permethrin) FMC 45498 (see Cyclopropanecarboxylic acid, 3-(2,2-dibromoethenyl)-2,2- dimethyl-, cyano(3- phenoxyphenyl)methyl ester, [1R- [1α(S*),3α]]- foliaceus, Onthophagus folliculorum, Demodex Fonsecia celestae, taxonomy of, chaetotaxy 2581 fontinella, Cuterebra Food establishments, pest control in 450 Food-handling premises, insect control in, traps for 466 Food production, vector-borne diseases and 301 Foodstuffs Monomorium pharaonis in 460 Supella longipalpa in, in Italy 479 Forcipomyia, in Cayman Islands 1658 Forest clearance |
| Aedes spp. 1225 Blattella germanica 1225, 2052 Cimex lectularius 1225 Glossina palpalis 203 Musca domestica 1225 Ornithonyssus sylviarum, on fowl 2928 conformation of 1468 development of 701 in insects, metabolism of 1466 in plants, metabolism of 1466 in ponds, effects on predatory insects of 98 in soil, degradation of 1466 in vertebrates, metabolism of 1466 in vertebrates, metabolism of 1466 in secticidal activity of enantiomers of 1465 on vegetation, persistence of 203 ferox, Onthophagus ferox, Psorophora Ferret (Mustela furo) Otodectes cynotis on, in England 415 Ferriamicide (see Mirex) Fever in cattle, caused by Theileria 2225 in horse, caused by Epicauta 402 in man caused by Culicidae 546 caused by Ornithodoros coniceps 1431 Ficalbia, in Malagasy Republic 2408 Ficam (see Bendiocarb) Ficus carica (see Fig) Fig (Ficus carica) Fig orchards, Aedes sierrensis in, dispersal of 3094 Figites, parasitising, dung-breeding flies, in California 1724 Fiji Culicoides belkini in 1097 domestic animals in, arthropod parasites of 1262 | Bacillus thuringiensis in, not pathogenic 551 DDT analogues in, accumulation of 1473 endosulfan in, toxicity of 1385 in ponds, effects of larvicidal oils on 1605 in rivers, effects of DDT on 968 mirex in, residues of 299 preying on, Aedes aegypti 1063 temephos avoidance by 3117 Flanders virus in Aedes albopictus, replication of 2760 Coquillettidia perturbans, in Connecticut 1898 Culex spp., in Connecticut 1898 Culiseta melanura, in Connecticut 1898 flava, Euproctis flava, Haemaphysalis flavescens, Aedes flavescens, Cnidocampa (see Monema flavescens, Cnidocampa (see Monema flavescens, Pantala flavirostris, Anopheles Flavobacterium, in, Argas persicus, in Pakistan 1996 flavofemoratus, Tabanus bromius (see T. bromius) flavolimbatus, Philonthus flavopictus, Aedes Flea (see Siphonaptera) Flea infestations in cat 718, 768 in dog 718, 768 in domestic animals 1262 in flowl 1288 in horse 1495 in livestock 2045, 2046 | Siolimyia amazonica in 603 Stomoxys calcitrans in, in dairies 888 Trombiculidae in 2240 Vespula squamosa 1176 Wyeomyia vanduzeei in 337, 1095 natural enemies of 1055 floridensis, Chaetopsylla Flower vases Aedes spp. in, in Sabah 3169 A aegypti in, in Martinique 2782 Fluorescent antibody technique for detecting dengue virus in Aedes albopictus 1904 for detecting Saint Louis encephalitis virus in Culex 3032 for identifying dengue virus in Aedes cell lines 1645 fluviatilis, Aedes fluviatilis, Aedes fluviatilis, Aopheles FMC 33297 (see Permethrin) FMC 45498 (see Cyclopropanecarboxylic acid, 3-(2,2-dibromoethenyl)-2,2- dimethyl-, cyano(3- phenoxyphenyl)methyl ester, [1R- [1a(\$*),3a]]-) foliaceus, Onthophagus folliculorum, Demodex Fonsecia celestae, taxonomy of, chaetotaxy 2581 fontinella, Cuterebra Food establishments, pest control in traps for 466 Food production, vector-borne diseases and 301 Foodstuffs Monomorium pharaonis in 460 Supella longipalpa in, in Italy 479 Forcipomyia, in Cayman Islands 1658 Forest clearance Glossina-transmitted diseases as affected |
| Aedes spp. 1225 Blattella germanica 1225, 2052 Cimex lectularius 1225 Glossina palpalis 203 Musca domestica 1225 Ornithonyssus sylviarum, on fowl 2928 conformation of 1468 development of 701 in insects, metabolism of 1466 in plants, metabolism of 1466 in plants, metabolism of 1466 in ponds, effects on predatory insects of 98 in soil, degradation of 1466 in vertebrates, metabolism of 1466 in vertebrates, metabolism of 1466 in secticidal activity of enantiomers of 1465 on vegetation, persistence of 203 ferox, Onthophagus ferox, Psorophora Ferret (Mustela furo) Otodectes cynotis on, in England 415 Ferriamicide (see Mirex) Fever in cattle, caused by Theileria 2225 in horse, caused by Epicauta 402 in man caused by Ornithodoros coniceps 1431 Ficalbia, in Malagasy Republic 2408 Ficam (see Bendiocarb) Ficus carica (see Fig) Fig (Ficus carica) Fig orchards, Aedes sierrensis in, dispersal of 3094 Figites, parasitising, dung-breeding flies, in California 1724 Fijit Culicoides belkini in 1097 domestic animals in, arthropod parasites | Bacillus thuringiensis in, not pathogenic 551 DDT analogues in, accumulation of 1473 endosulfan in, toxicity of 1385 in ponds, effects of larvicidal oils on 1605 in rivers, effects of DDT on 968 mirex in, residues of 299 preying on, Aedes aegypti 1063 temephos avoidance by 3117 Flanders virus in Aedes albopictus, replication of 2760 Coquillettidia perturbans, in Connecticut 1898 Culex spp., in Connecticut 1898 Culiseta melanura, in Connecticut 1898 Ava, Euproctis flava, Haemaphysalis flavescens, Aedes flavescens, Cnidocampa (see Monema flavescens, Pantala flavirostris, Anopheles Flavobacterium, in, Argas persicus, in Pakistan 1996 flavofemoratus, Tabanus bromius (see T. bromius) flavolimbatus, Philonthus flavopictus, Aedes Flea (see Siphonaptera) Flea infestations in cat 718, 768 in dog 718, 768 in domestic animals 1262 in fowl 1288 in horse 1495 | Siolimyia amazonica in 603 Stomoxys calcitrans in, in dairies 888 Trombiculidae in 2240 Vespula squamosa 1176 Wyeomyia vanduzeei in 337, 1095 natural enemies of 1055 floridensis, Chaetopsylla Flower vases Acdes spp. in, in Sabah 3169 A. aegypti in, in Martinique 2782 Fluorescent antibody technique for detecting dengue virus in Aedes albopictus 1904 for detecting Saint Louis encephalitis virus in Culex 3032 for identifying dengue virus in Aedes cell lines 1645 fluviatilis, Aedes fluviatilis, Anopheles FMC 33297 (see Permethrin) FMC 45498 (see Cyclopropanecarboxylic acid, 3-(2,2-dibromoethenyl)-2,2- dimethyl-, cyano(3- phenoxyphenyl)methyl ester, [1R- [1α(S*),3α]]- foliaceus, Onthophagus folliculorum, Demodex Fonsecia celestae, taxonomy of, chaetotaxy 2581 fontinella, Cuterebra Food establishments, pest control in 450 Food-handling premises, insect control in, traps for 466 Food production, vector-borne diseases and 301 Foodstuffs Monomorium pharaonis in 460 Supella longipalpa in, in Italy 479 Forcipomyia, in Cayman Islands 1658 Forest clearance |
| Aedes spp. 1225 Blattella germanica 1225, 2052 Cimex lectularius 1225 Glossina palpalis 203 Musca domestica 1225 Ornithonyssus sylviarum, on fowl 2928 conformation of 1468 development of 701 in insects, metabolism of 1466 in plants, metabolism of 1466 in ponds, effects on predatory insects of 98 in soil, degradation of 1466 in vertebrates, metabolism of 1466 in secticidal activity of enantiomers of 1465 on vegetation, persistence of 203 ferox, Onthophagus ferox, Psorophora Ferret (Mustela furo) Otodectes cynotis on, in England 415 Ferriamicide (see Mirex) Fever in cattle, caused by Theileria 2225 in horse, caused by Epicauta 402 in man caused by Culicidae 546 caused by Ornithodoros coniceps 1431 Ficalbia, in Malagasy Republic 2408 Ficam (see Bendiocarb) Figu scarica (see Fig) Fig (Ficus carica) Fig orchards, Aedes sierrensis in, dispersal of 3094 Figites, parasitising, dung-breeding flies, in California 1724 Fiji Culicoides belkini in 1097 domestic animals in, arthropod parasites of 1262 Psoroptes cuniculi in, on goat 2915 Filariasis, in Egypt 1096 Filarioidea | Bacillus thuringiensis in, not pathogenic 551 DDT analogues in, accumulation of 1473 endosulfan in, toxicity of 1385 in ponds, effects of larvicidal oils on 1605 in rivers, effects of DDT on 968 mirex in, residues of 299 preying on, Aedes aegypti 1063 temephos avoidance by 3117 Flanders virus in Aedes albopictus, replication of 2760 Coquillettidia perturbans, in Connecticut 1898 Culiese spp., in Connecticut 1898 Culiese amelanura, in Connecticut 1898 flava, Euproctis flava, Haemaphysalis flavescens, Aedes flavescens, Cnidocampa (see Monema flavescens, Cnidocampa (see Monema flavescens, Pantala flavirostris, Anopheles Flavobacterium, in, Argas persicus, in Pakistan 1996 flavofemoratus, Tabanus bromius (see T. bromius) flavolimbatus, Philonthus flavopictus, Aedes Flea (see Siphonaptera) Flea infestations in cat 718, 768 in domestic animals 1262 in fowl 1288 in horse 1495 in livestock 2045, 2046 in man 718, 768, 770, 1241, 2351, 2718, 3026 in pig 768 | Siolimyia amazonica in 603 Stomoxys calcitrans in, in dairies 888 Trombiculidae in 2240 Vespula squamosa 1176 Wyeomyia vanduzeei in 337, 1095 natural enemies of 1055 floridensis, Chaetopsylla Flower vases Aedes spp. in, in Sabah 3169 A. aegypti in, in Martinique 2782 Fluorescent antibody technique for detecting dengue virus in Aedes albopictus 1904 for detecting Saint Louis encephalitis virus in Culex 3032 for identifying dengue virus in Aedes cell lines 1645 fluviatilis, Aedes fluviatilis, Anopheles FMC 33297 (see Permethrin) FMC 45498 (see Cyclopropanecarboxylic acid, 3-(2,2-dibromoethenyl)-2,2- dimethyl-, cyano(3- phenoxyphenyl)methyl ester, [1R- [1a(S**),3a]]-) foliaceus, Onthophagus folliculorum, Demodex Fonsecia celestae, taxonomy of, chaetotaxy 2581 fontinella, Cuterebra Food establishments, pest control in 450 Food-handling premises, insect control in, traps for 466 Food production, vector-borne diseases and 301 Foodstuffs Monomorium pharaonis in 460 Supella longipalpa in, in Italy 479 Forcipomyia, in Cayman Islands 1658 Forest clearance Glossina-transmitted diseases as affected by 1379 mosquito breeding places created by 2799 |
| Aedes spp. 1225 Blattella germanica 1225, 2052 Cimex lectularius 1225 Glossina palpalis 203 Musca domestica 1225 Ornithonyssus sylviarum, on fowl 2928 conformation of 1468 development of 701 in insects, metabolism of 1466 in plants, metabolism of 1466 in ponds, effects on predatory insects of 98 in soil, degradation of 1466 in vertebrates, metabolism of 1466 in vertebrates, metabolism of 1466 in secticidal activity of enantiomers of 1465 on vegetation, persistence of 203 ferox, Onthophagus ferox, Psorophora Ferret (Mustela furo) Otodectes cynotis on, in England 415 Ferriamicide (see Mirex) Fever in cattle, caused by Theileria 2225 in horse, caused by Epicauta 402 in man caused by Ornithodoros coniceps 1431 Ficalbia, in Malagasy Republic 2408 Ficam (see Bendiocarb) Ficus carica (see Fig) Fig (Ficus carica) Fig orchards, Aedes sierrensis in, dispersal of 3094 Figites, parasitising, dung-breeding flies, in California 1724 Fijit Culicoides belkini in 1097 domestic animals in, arthropod parasites of 1262 Psoroptes cuniculi in, on goat 2915 Filariasis, in Egypt 1096 | Bacillus thuringiensis in, not pathogenic 551 DDT analogues in, accumulation of 1473 endosulfan in, toxicity of 1385 in ponds, effects of larvicidal oils on 1605 in rivers, effects of DDT on 968 mirex in, residues of 299 preying on, Aedes aegypti 1063 temephos avoidance by 3117 Flanders virus in Aedes albopictus, replication of 2760 Coquillettidia perturbans, in Connecticut 1898 Culex spp., in Connecticut 1898 Culex spp., in Connecticut 1898 Culesta melanura, in Connecticut 1898 flava, Euproctis flava, Haemaphysalis flavescens, Cnidocampa (see Monema flavescens, Cnidocampa (see Monema flavescens, Pantala flavirostris, Anopheles Flavobacterium, in, Argas persicus, in Pakistan 1996 flavofemoratus, Tabanus bromius (see T. bromius) flavolimbatus, Philonthus flavopictus, Aedes Flea (see Siphonaptera) Flea infestations in cat 718, 768 in domestic animals 1262 in fowl 1288 in horse 1495 in livestock 2045, 2046 in man 718, 768, 770, 1241, 2351, 2718, 3026 | Siolimyia amazonica in 603 Stomoxys calcitrans in, in dairies 888 Trombiculidae in 2240 Vespula squamosa 1176 Wyeomyia vanduzeei in 337, 1095 natural enemies of 1055 floridensis, Chaetopsylla Flower vases Aedes spp. in, in Sabah 3169 A. aegypti in, in Martinique 2782 Fluorescent antibody technique for detecting dengue virus in Aedes albopictus 1904 for detecting Saint Louis encephalitis virus in Culex 3032 for identifying dengue virus in Aedes cell lines 1645 fluviatilis, Anopheles FMC 33297 (see Permethrin) FMC 45498 (see Cyclopropanecarboxylic acid, 3-(2,2-dibromoethenyl)-2,2- dimethyl-, cyano(3- phenoxyphenyl)methyl ester, [1R- [1α(S^*),3α]]-) foliaceus, Onthophagus folliculorum, Demodex Fonsecia celestae, taxonomy of, chaetotaxy 2581 fontinella, Cuterebra Food establishments, pest control in 450 Food-handling premises, insect control in, traps for 466 Food production, vector-borne diseases and 301 Foodstuffs Monomorium pharaonis in 460 Supella longipalpa in, in Italy 479 Forcipomyia, in Cayman Islands 1658 Forest clearance Glossina-transmitted diseases as affected by 1379 mosquito breeding places created by |

France contd.

| Forest pests | Fowl contd. | France contd. |
|---|--|--|
| control of | carbaryl in contd. | Simuliidae in contd. |
| | | |
| biological 2355 | toxicity of 2944 | on mule 1929 |
| non-target effects of 163, 968 | Ceratophyllus niger on, in Montana | Tabanidae in 892, 1684, 1959, 2157 |
| Forests | 1288 | Francilia, taxonomy of 1143 |
| Aedes spp. in, in USSR 2386 | Culex annulirostris on, in Queensland | franciscanus, Anopheles |
| A. communis in, in USSR 778 | 507 | Francisella tularensis (see Pasteurella |
| | | tularensis) |
| Chrysomya chani in, in Singapore 1732 | C. pipiens on, feeding by 150 | |
| Culicidae in, effects of drainage on 832 | C. tarsalis on, feeding by 1576 | fraternus, Tabanus |
| Glossina spp. in, effects of human activity | dieldrin in, elimination of 703 | freeborni, Anopheles |
| on 2832 | Lipeurus caponis on, in Andaman and | freemani, Procladius |
| insecticide deposit patterns in, effects of | Nicobar Islands 2333 | French Guiana |
| weather on 138 | malathion in, toxicity of, effects of | Culex portesi in, on man 3030 |
| Phlebotominae in, in Yugoslavia 444 | pretreatment with DDT on 704 | |
| synanthropic Diptera in, in Poland 907 | Menacanthus stramineus on | Culicidae in, viruses in 2732 |
| Trombiculidae in, habitat change by | in Andaman and Nicobar Islands | Lutzomyia anduzei in 2812 |
| 1783 | 2333 | L. moucheti in 360 |
| | | L. umbratilis in 2812 |
| Forests, beech-oak, Ixodes ricinus in, in | in India 1532 | flagellates in 2449 |
| Czechoslovakia 257 | Menopon gallinae on, in India 1532 | Phlebotominae in, viruses in 2732 |
| Forests, deciduous, Dermacentor reticulatus | Numidilipeurus lawrensis on | |
| in, development of 2561 | feeding by 3014 | French Polynesia |
| Forests, fir, <i>Ixodes perculcatus</i> in, in USSR | in Uttar Pradesh 1531 | Aedes aegypti in 2784 |
| 2611 | Ornithodoros moubata on, in East Africa | A. polynesiensis in 2784, 2785, 2803 |
| Forests, floodplain, Aedes spp. in, in | 2585 | French Territory of the Afars and Issas (see |
| Czechoslovakia 3089 | Ornithonyssus sylviarum on | Djibouti) |
| | effects of steroids on 941 | French West Indies |
| Forests, gallery (see Forests, riverine) | effects of stress on 941 | |
| Forests, maple, Ixodes ricinus in, in | | Aedes aegypti in 2782 |
| Czechoslovakia 257 | effects on body weight of 2023 | mosquito control in 2782 |
| Forests, moss, Trombiculidae in, in Papua | effects on egg production of 420, 2023 | Friesia (see Simulium) |
| New Guinea 1772 | in Arkansas 2922 | Fringilla coelebs, Ixodes ricinus on, in West |
| Forests, oak-beech, Ixodes ricinus in, in | in California 2928 | Germany 2218 |
| Czechoslovakia 257 | in USA 1829 | fritzei, Erasmia pulchella |
| Forests, rain, Phlebotominae in, in Congo | preying on, Hypoderma spp., in Italy | Frog |
| 2140 | 575 | endosulfan in, toxicity of 1385 |
| | | Heterometrus fulvipes venom in |
| Forests, riverine | Saint Louis encephalitis, virus in, in | |
| Culicidae in, in Congo 2739 | Florida 1301 | effects of 948 |
| Glossina medicorum in, in Upper Volta | Tetrameres mohtedai in, infectivity of | effects on enzymes of 686 |
| 2151 | 2663 | Latrodectus tredecimguttatus venom in, |
| G. palpalis in | tick control on, acaricides for 2904 | effects on neuromuscular junctions of |
| in Ivory Coast 2826 | Triatoma barberi on, in Mexico 3023 | 2251 |
| in Upper Volta 565 | western equine encephalitis, virus in, in | Frontopsylla semura |
| G. tachinoides in, resting places of 2837 | California 1850 | in USSR 2346 |
| Forests, secondary, Phlebotominae in, in | Fowl blood, diet component for, Anopheles | on Citellus musicus, in Caucasus 2346 |
| | culicifacies 1911 | seasonal abundance of 2346 |
| Congo 2140 | | |
| Forests, spruce, Culicidae in, in Finland | Fowl dung | Frontopsylla tomentosa |
| 1916 | diet component for, Stomoxys calcitrans | sp. nov., description of 1034 |
| Formica fusca | 215 | in China 1034 |
| Dicrocoelium dendriticum in, in | Diptera in, in Kentucky 2494 | on Apodemus latronum, in China 1034 |
| Yugoslavia 442 | fly control in, insecticides for 2494 | on Marmota himalayana, in China 1034 |
| in Yugoslavia 442 | Fowl houses | Fructofuranosidase, β - |
| Formica nigricans, in Yugoslavia 442 | Argas magnus in, in Colombia 245 | in Cheyletus eruditus gut 2041 |
| Formica pratensis (see F. nigricans) | Musca domestica in | in Xenopsylla astia gut 1285 |
| Formica rufa, in Yugoslavia 442 | in California 2873 | in Xenopsylla astia mid-gut 3027 |
| | in North Carolina 2183 | |
| Formica rufibarbis | | in Xenopsylla cheopis gut 1285 |
| Dicrocoelium dendriticum in, in | tick control in 640 | in Xenopsylla cheopis mid-gut 3027 |
| Yugoslavia 442 | Triatoma maculata in, in Venezuela | D-Fructose |
| in Yugoslavia 442 | 2706 | diet component for, Ophyra aenescens |
| Formica sanguinea, in Yugoslavia 442 | Triatominae in, in Brazil 1015 | 908 |
| Formicaphagus | Triatomine sampling with 2706 | in <i>Phormia regina</i> , receptors for 881 |
| on Culex, in Brazil 1290 | Fowl plague virus, in, Aedes aegypti, | Fruit husks, Eretmapodites subsimplicipes in |
| on Culex nigripalpus, in Ecuador 1290 | replication of 3054 | 3058 |
| Formicaricola, on Culex vomerifer, in | Fowl pox, virus, in, Culicoides arakawai, | Fruit waste, Drosophila melanogaster in, in |
| Ecuador 1290 | transmission of 3104 | California 207 |
| Formicidae | Fox carcasses, Chrysomya spp. in, in | frustratus, Polygenis |
| | | |
| Aedes sierrensis eggs not eaten by 1885 | Queensland 588 | Fuel oil |
| control of, insecticides for 304 | Fox, grey (see <i>Urocyon cinereoargenteus</i>) | against 1046 |
| hindering rearing of Triatominae 1019 | Fox, red (see Vulpes vulpes) | Anopheles funestus 1046 |
| in Nansei Islands 712 | Framycetin | A. gambiae 1046 |
| preyed on by | with fusidic acid, nystatin, and | fukienensis, Echinolaelaps |
| Latrodectus spp., in Argentina 424 | prednisolone | fuliginosa, Periplaneta |
| Salticidae 293 | against | fuliginosus, Chrysops |
| preying on, molluscs 2037 | Otodectes cynotis | fulva, Bovicola (see Damalinia fulva) |
| volatile signals in, complexity of 32 | on cat 416 | fulva, Damalinia (Bovicola) |
| formosana, Chalcosia | on dog 416 | fulva, Paratrechina |
| | France | fulvi, Geomydoecus |
| Forthion (see Malathion) | | fulvin ctum Cimulium |
| fortisetosa, Lipoptena | Anopheles spp. in 2363 | fulvinotum, Simulium |
| Fowl (Gallus domesticus) | Brachycera in, in cattle dung 1697 | fulvipes, Heterometrus |
| acaricides in, toxicity of 2256 | Culex modestus in, viruses in 968 | fulvistriatus, Stenotabanus |
| Acuaria spiralis in, infectivity of 2663 | Culicidae in 177, 1588, 1589, 1591 | fulvus, Oniticellus |
| Amblyomma cyprium on, in New | Culiseta annulata in, viruses in 1340 | Fumaria, acaricidal activity of extracts of |
| Hebrides 2207 | Demodex canis in, on dog 2244 | 246 |
| Argas persicus on | Hystrichopsylla spp. in 2084 | Fumigants, synonyms of 954 |
| development of 2227 | Listrophorus occitanus in, on small | fumigata, Byrsotria |
| in Iran 2903 | mammals 274 | funeralis, Artona |
| in Madhya Pradesh 640 | livestock housing in, pest control in 2538 | |
| paralysis caused by 1177 | | funestus, Anopheles Fungal cavities Fretmandites |
| | mosquito control in 170, 171 | Fungal cavities, Eretmapodites |
| arthropod pests of, in USA 421 | Ornithodoros coniceps in 1431 | subsimplicipes in 3058 |
| Borrelia anserina in, in USA 405 | Pediculus capitis in, on man 1533 | Fungi |
| carbaryl in | P. humanus in, on man 1533 | in |
| effects on egg production of 2943 | Pthirus pubis in, on man 1533 | Aedes aegypti 1063 |
| not affecting fertility 2945 | Pyemotes zwoelferi in, on man 3210 | cattle dung, effects of insects on 2989 |
| not affecting growth rate 2943 | Simuliidae in | house dust, identifying of 933 |
| not affecting hatchability 2945 | on cattle 1929 | insects, diagnostic manual 2031 |

Fowl contd.

Gambusia affinis contd.

| in contd. | with framycetin, nystatin, and | feeding behaviour in 1339 |
|---|--|--|
| insects in grocery shops, in East | prednisolone | food preferences in 1862 |
| Germany 1832 | against | garlic extracts in, toxicity of 2384 |
| Lardoglyphus falconidus feeding on, in | Otodectes cynotis | habitats of 1862 |
| New York 276 | on cat 416 | holding ponds for 1860 |
| mosquito control using 468 | on dog 416 | in rice-fields |
| Phanaeus halffterorum on, in Mexico | Futuna (indexed under Wallis and Futuna | diel activity of 107 |
| 912 | Islands) | seasonal migration of 107 |
| Fungicides, role in control of Acari of | Gabon | stocking methods for 108 |
| 2548 | Culicoides grahamii in, on man 2745, | in salt marshes, water management as |
| Fungus 276, 468, 912, 933, 1063, 1832, | 3103 | affecting 1874, 1875 |
| 2031, 2989 | Herpetacarus makokoui in, on Atherurus | insect growth regulators in |
| | 2931 | effects on swimming behaviour of 955 |
| Aspergillus flavus 482 | Gahrliepia | residues of 2481 |
| A. glaucus 2565 | habitats of 1772 | insecticides in, resistance to 302 |
| A. penicilloides 2565 | in Kyushu 2925 | mosquito control using |
| A. restrictus 2565 | on mammals, in Papua New Guinea | non-target effects of 175 |
| Beauveria 2939 | 1772 | registration not required for 2393 |
| B. bassiana 985, 1864 | on small mammals, in West Malaysia | Plea striola not preying on 1894 |
| B. tenella 1864, 2772 | 3217 | population dynamics of 1863 |
| Catenaria anguillulae 105 | Gahrliepia doratanae | preying on |
| Coelomomyces 1055, 1606, 1607 | sp. nov., description of 2231 | Aedes spp., and biological control |
| C. couchii 1653 | in Indonesia 2231 | using, in California 1873 |
| C. iliensis 773, 2377, 3070 | on Rattus argentiventer, in Java 2231 | Anopheles freeborni, and biological |
| C. opifexi 785 | on Rattus bartelsii, in Java 2231 | control using, in California 101, |
| C. psorophorae 354, 2420, 2428 | on Rattus fulvescens, in Java 2231 | 107 |
| C. punctatus 2802 | Gahrliepia fletcheri, taxonomy of, | Culex tarsalis, and biological control |
| Coelomycidium simulii 2454 | chaetotaxy 2581 | using, in California 107 |
| Culicinomyces 506, 511, 1093 | Gahrliepia hegu | Culicidae 1339 |
| Entomophthora bullata 1411 | sp. nov., description of 1212 | and biological control using, in |
| E. culicis 400 | in China 1212 | California 1872 |
| E. muscae 2503 | on Crocidura attenuata, in Yunnan | Game animals |
| E. tabanivora 2530 | Province 1212 | |
| | | arthropod parasites of, book 2261 |
| Eurotium repens 2565 | on Mus famulus, in Yunnan Province 1212 | arthropod pests of, in South Africa 2987 diseases of, book 305 |
| Function larvarim 604 | | pesticides in, toxicity of 305 |
| Fusarium larvarum 604 | on Rattus nitidus, in Yunnan Province 1212 | |
| F. oxysporum 2772 | | Game birds, arthropod parasites of, book 2261 |
| Lagenidium giganteum 101, 1866, 2356, | Gahrliepia ligula (see Schoengastiella ligula) | |
| 2483 | Gahrliepia saduski in China 1211 | Game eradication, Glossina-transmitted |
| Metarhizium anisopliae 2772 | | diseases as affected by 1379 |
| Micropolyspora faeni 1207 | seasonal abundance of 1211 | Game reserves, Diptera in, in Uganda 3180 |
| Stigmatomyces crassicollis 1960 | galactinus, Xylocoris | Gamma-BHC (see Lindane) |
| S. hydrelliae 1960 | D-Galactose , diet component for, <i>Ophyra</i> | Gamma-HCH (see Lindane) |
| S. scaptomyzae 1960 | aenescens 908 | Gammaridae, preying on, Culicidae 2126 |
| Tolypocladium 1864 | Galleria mellonella, Dolichovespula | Gammexane (see Lindane) |
| Trichophyton mentagrophytes 2246 | maculata venom in, toxicity of 2195 | Ganjam virus, in, Culicoides spp., in Nigeria |
| T. verrucosum 758 | gallicus, Polistes | 857 |
| Funicularius triseriatus | gallinacea, Echidnophaga | gansuensis, Amphipsylla vinogradovi |
| gen. et sp. nov., description of 1335 | gallinae, Ceratophyllus | Garbage cans (see Dustbins) |
| in, Aedes triseriatus, in Michigan 1335 | gallinae, Dermanyssus | Gardens |
| Funisciurus isabella, Werneckia spp. on, in | gallinae, Menopon | Aedes albopictus in, in West Malaysia |
| Nigeria 1272 | galloisi, Aedes | 1085 |
| Funisciurus lemniscatus, Werneckia spp. on, | Gallus domesticus (see Fowl) | Polistes spp. in, in Texas 2194 |
| in Nigeria 1272 | Galumna, Anoplocephalidae in, development | Garlic (Allium sativum) |
| furcifer, Aedes | of 2011 | insecticidal activity of extracts of 2384 |
| furcifera, Sogatella | Gamasidae | Gasterophilidae |
| furens, Culicoides | in Microtus arvalis nests, in Armenia | control of, insecticides for 3140 |
| 5H-Furo[3,2-c][2]benzopyran-5-one, | 1546 | on horse, in USSR 3140 |
| 2,3,3a,9b-tetrahydro-6,7-dihydroxy-8- | on Apodemus agrarius, in Soviet Far East | on mammals, in Poland 2473 |
| methoxy-2-propyl- | 1744 | parasitic, book 2950 |
| in Calliphora vicina, not toxic 604 | on rodents, in Hokkaido 2009 | Gasterophilus |
| in Fusarium larvarum 604 | Gamasinae | control of 2044 |
| 5H-Furo[3,2-c][2]benzopyran-5-one, | in Bulgaria 1777 | on horse |
| 2,3,3a,9b-tetrahydro-6-hydroxy-7,8- | on birds, in USSR 931 | in Mongolia 2044 |
| dimethoxy-2-propyl- | on mouse-like rodents, in Byelorussia | in Spain 1495 |
| in Calliphora vicina, toxicity of 604 | 639 | Gasterophilus haemorrhoidalis |
| in Fusarium larvarum 604 | on small mammals, in USSR 931 | control of, insecticides for 3141 |
| Furunculosis, in man, caused by Cuterebra | on Sorex, in Maritime Territory 2040 | distribution of 1674 in USA 1680 |
| 1678 | Gamasodes buettikeri | |
| Fusarium larvarum, insecticidal activity of | sp. nov., description of 1235 | in USSR 2839, 3141 |
| secondary metabolites in 604 | in Saudi Arabia 1235 | on horse 1674 |
| Fusarium oxysporum | on Musca domestica, in Saudi Arabia | in Indiana 1680 |
| In | 1235 | in Kazakhstan 2839 |
| Aedes aegypti, not infective 2772 | Gamasoidea | in Montana 1680 |
| Anopheles stephensi, pathogenicity of | on small mammals | in USSR 3141 |
| 2772 | in Bulgaria 1778 | Gasterophilus inermis |
| Culex quinquefasciatus | in USSR 667 | control of, insecticides for 3141 |
| in Tamil Nadu 2772 | Gambia | distribution of 1674 |
| pathogenicity of 2772 | Anotheles are in 2008 2000 | in USSR 3141 |
| fusca, Formica | Anopheles spp. in 2098, 2099 | on horse 1674 |
| fusca, Glossina | on man 2738 | in Buryatia 3141 |
| fusca, Gohieria | A. melas in, on man 2758 | Gasterophilus intestinalis |
| fusca, Holcocephala | Culex thalassius in, on man 2758 | aggregation in 2478 |
| fuscanus, Culex | Culicidae in | control of, insecticides for 2476, 2477, |
| fuscipes, Glossina | in rice-fields 1330 | 3141 |
| fuscipes, Paederus | on man 135 | distribution of 1674 |
| fuscocephalus, Culex | Mansonia spp. in, on goat 2737 | in USA 1680, 2477, 2478 |
| fuscum, Prosimulium | yellow fever in 3080 | in USSR 2839, 3141 |
| fuscus, Blaberus (see B. craniifer) | gambiae, Anopheles | larval development in, effects of |
| | gambiensis, Glossina palpalis | temperature on 374 |
| | Gambusia affinis | mating in 2478 |
| | endrin in, uptake and fate of 702 | on horse 1674 |

endrin in, uptake and fate of 702

Fusidic acid

Gasterophilus intestinalis contd. Geomydoecus dalgleishi on horse contd. in Kazakhstan 2839 in Kentucky 2477 in USA 1680 in USSR 3141 in USA 1530 Gasterophilus nasalis control of, insecticides for 2477, 3141 in USA 1530 distribution of 1674 in USA 1680, 2477 in USSR 2839, 3141 on horse 1674 Geomydoecus fulvi in Kazakhstan 2839 in Kentucky 2477 in USA 1680 in USSR 3141 Gasterophilus nigricornis control of, insecticides for 3141 1527 distribution of 1674 Geomydoecus pattoni in USSR 3141 on horse 1674 in Buryatia 3141 Gasterophilus pecorum control of 2044 insecticides for distribution of 1674 in Mongolia 2044 in USSR 2839, 3141 on horse 1674 in USA 58 in USA 754 in Kazakhstan 2839 in Mongolia 2044 in USSR 3141 Gastroenteritis, in man, caused by
Telmatoscopus albipunctatus 578
Gastromermis boophthorae
body wall in, developmental changes in
1371 trophosome in 1372 Gastrotricha 1657 Gastrotrichs, culture methods for 1657 gazellus, Onthophagus Gedoelstia descriptions of 2474 Geomys bursarius on antelope, in Africa 2474 Gel diffusion tests for detecting antibodies to Hypoderma bovis in cattle 1125 in Texas 754 for detecting prey antigens in predator guts 1373 for identifying Triatomine blood-meals Georgia 2081 diet component for, Dermatophagoides pteronyssinus 271 pesticides formulated in microcapsules of 697 gelidus, Culex Geotrupes spiniger in UK 239 geminata, Solenopsis gemiticulum, Leptotrombidium gemma, Amblyomma Genetic control of arthropods 467 f arthropods 467
Aedes aegypti 1063
Anopheles atroparvus 279
Blattella germanica 3001
Culex tarsalis 1314, 1867
C. tritaeniorhynchus 1920
Culicidae 2268, 3068
models of 1353
Glossina spp. 2268, 2316
Lucilia cuprina 2269
pests of domestic animals Gerbil pests of domestic animals 2296 vectors 972 balanced sex-linked lethals for 1496 review 2268, 2269 Genetic engineering, in pest management geniculatus, Aedes geniculatus, Borborus (see Copromyza atra) 1832 geniculatus, Panstrongylus Geomydoecus chihuahuae sp. nov., description of 1841 1832 in Mexico 1841 in USA 1841 on Thomomys bottae, in Arizona 1841 on Thomomys umbrinus, in Mexico 1841 Caloglyphus berlesei in, on sheep 1775 cockroach control in 2318 Euproctis similis in, on man 461 Geomydoecus chihuahuae emersoni ssp. nov., description of 1841 in Mexico 1841 Ixodes lividus in, on Riparia riparia 649 on Thomomys umbrinus, in Mexico Lucilia sericata in

1841

German Democratic Republic contd. sp. nov., description of 754 in USA 754 Lucilia sericata in contd. on dog 2502 on Geomys personatus, in Texas 754
Geomydoecus ewingi Musca domestica in, in pig farms 3154 Pediculus capitis in, on man 2066 Periplaneta americana in, in grocery shops on Geomys bursarius, in Texas 1530 1832 Simulium equinum in 1107 Geomydoecus expansus S. erythrocephalum in, on cattle 1106 on Pappogeomys castanops, in Texas S. lineatum in 1107 S. ornatum in 1107 Vespula germanica in, in grocery shops sp. nov., description of 1841 in USA 1841 1832 German Federal Republic on Thomomys bottae, in Arizona 1841 Aedes spp. in 469 Geomydoecus illinoisensis in USA 57, 1527 arthropods in, mycobacteria in 738 Blatta orientalis in 460 on Geomys bursarius, in Indiana 57, Blattella germanica in 460 Cheiracanthium punctorium in, on man sp. nov., description of 1841 in Mexico 1841 Chorioptes bovis in, on cattle 2012 on Thomomys umbrinus, in Mexico Culex pipiens in 2370 Culicidae in 458 Dermacentor marginatus in, rickettsiae in Geomydoecus scleritus descriptions of 58 Diptera in, on cattle 3157 on Geomys pinetis, in Florida 58 Geomydoecus texanus Eulaelaps spp. in, in straw 666 Euproctis similis in, on man Haematobia spp. in, on cattle
Haematopinus suis in, on pig
2926 taxonomy of, characters distinguishing G. dalgleishi and 754 Hypoderma spp. in, on cattle 861 Insecticide use in, legislation on 473

Ixodes arboricola in, on birds 1753

I. lividus in, on Riparia 1753 Geomydoecus tolucae descriptions of 1841 complex of 1841 Geomydoecus truncatus in USA 754 I. ricinus in nematodes in 2228 on birds 2218 viruses in 2572, 2573, 2971 taxonomy of, characters distinguishing G.

dalgleishi and 754 Ixodoidea in on domestic animals 457 on man 457 Geomyidae, *Pygmephorus* spp. on, in North America 2643 Monomorium pharaonis in 460 mosquito control in 472, 3068 Musca autumnalis in, on cattle 1394, 2166 Geomydoecus ewingi on, in Texas 1530 G. illinoisensis on, in Indiana 57, 1527 Geomys personatus, Geomydoecus spp. on, M. domestica in 2504, 3160, 3167 on cattle 1394, 2166 Geomys pinetis, Geomydoecus scleritus on, in Florida 58 Oestrus ovis in, on dog 2155 Pediculus capitis in, on man Psoroptes spp. in, on cattle 934 Culex spp. in, in pig-waste lagoons 1070 P. ovis in P. Ovis in
on cattle 2012, 2658
on sheep 1770, 2658
Rhipicephalus sanguineus in 920
on dog 2594
Sarcoptes scabiei in
on cattle 2012
on pig 2926
Simuliidae in 1366
Simuliim spp. in 2146 Haemaphysalis leporispalustris in, spiroplasmas in 3189 Psoroptes cuniculi in, on Odocoileus virginianus 674 Scarabaeidae in 244, 1740 nesting behaviour in 239 Simulium spp. in 2146 on cattle 3123 Geotrupes stercorarius in Irish Republic 1696 in cattle dung, effects of soil type on Stomoxys spp. in, on cattle 2166 S. calcitrans in, on cattle 1394 germanica, Blattella germanica, Paravespula (see Vespula preying on, *Glossina austeni* 1115 Siphonaptera on biology of 1021 germanica) population dynamics of 1022 Gerbil, great (see Rhombomys opimus) germanica, Vespula (Paravespula) Gerromorpha, preying on, Culicidae gerbilli, Xenopsylla
Germacrene D (see 1,6-Cyclodecadiene, 1methyl-5-methylene-8-(1-methylethyl)-, gestroi, Araeopsylla Getah viruses, in, Culex tritaeniorhynchus, in Kyushu 3072 GH-74 (see Benzene, 1,1'-(2-[S-(E,E)]-)

Germacrene D 1,2-epoxide (see 11Oxabicyclo[8.1.0]undec-5-ene, 1-methyl7-methylene-4-(1-methylethyl)-, (E)-(-)-)

German Democratic Republic nitropropylidene)bis[4-ethoxy-) Ghana Armillifer armillatus in, on man 2936
Culex watti in 2781
onchocerciasis control in 1109, 1110
onchocerciasis in 2147
Pediculus capitis in, on man 756 Acheta domesticus in, in grocery shops Aedes rossicus in 1568 Blatta orientalis in, in grocery shops Simulium damnosum in 1928 S. squamosum in 841 ellow fever in 3080 Blattella germanica in in grocery shops 1832 gibbinsi, Drosophila gibbus, Leporacarus (Listrophorus) gibbus, Listrophorus (see Leporacarus in refrigerators 642 in zoos 2060 gibbus)

giganteus, Blaberus

gigas, Myonyssus glaber, Macrocheles

on cat 2502

Gigantolaelaps, on mammals, in Mexico

| glasgowi, Haemolaelaps (see Androlaelaps fahrenholzi) | Glossina brevipalpis hosts of 2830, 3133 | Glossina morsitans morsitans contd. control of contd. |
|--|---|--|
| glauca, Notonecta | in Uganda 2830, 3133 | traps for 368 |
| Glaucomys volans, Rickettsia prowazekii in | Trypanosoma spp. in, in Uganda 2830 | eggs of 1376 |
| 2703 | Glossina fusca | surface structure of 1672 |
| Glaucops hirsutus | in Ivory Coast 571 | endosymbiotic bacteroids in, properties of |
| autogeny in 2157 | group of | 1377 |
| in France 2157 | in coffee plantations, in Ivory Coast | energy budget of 3135 |
| Gliricoptes eliomys | 2832 | enzymes in 1378 |
| in Spain 1478 | in forests, effects of human activity on | feeding behaviour in 2152 |
| on small mammals, in Spain 1478 | 2832 | flight activity in, rhythm of 1673 |
| Gliricoptes zapus, on Zapus, in North | Glossina fuscipes, adults of, determining age | host-finding behaviour in, role of flight in |
| America 1447 | of 566 | 3136 |
| globocoxitus, Culex | Glossina fuscipes fuscipes | human odour as affecting 573 |
| Globulins, in Glossina morsitans diet, | control of, insecticides for 2465 | in Zimbabwe 368, 573, 1384, 1385, 3136 |
| absorption through mid-gut of 1671 | hosts of 2830, 3133 | lactic acid as affecting 573 |
| Globulins, immune | in Uganda 2830, 3133 | life tables for 1384 |
| A, to Dermatophagoides pteronyssinus, in | Trypanosoma spp. in, in Uganda 2830 | mid-gut in, absorption of proteins through |
| man 937 E | T. brucei in, transmission of 570 | 1671 |
| to Apis mellifera, in man 3185 | Glossina fuscipes martinii, Trypanosoma brucei in, transmission of 570 | milk in, synthesis of 2149 |
| to Apis mellifera venom, in man 401, | Glossina fuscipes quanzensis | on goat, skin reactions to 3086 |
| 634, 2542, 3184 | in Congo 2466 | on rabbit, rearing of 1934 |
| to Cladotanytarsus lewisi, in man 886 | population dynamics of 2466 | saliva in, anticoagulants in 2437 |
| to Dermatophagoides pteronyssinus, in | Trypanosoma brucei in, transmission of | salmon mutant of 369 |
| man 937, 1217, 1443, 2645, 2648, | 570 | Serratia marcescens in, pathogenicity of |
| 2649 | Glossina longipalpis | 1117 |
| to grass pollen, in man 2649 | forest clearance as affecting 1379 | Trypanosoma brucei in |
| to house dust, in man 1443 | game eradication as affecting 1379 | effects on feeding behaviour of 2152 |
| to insect venoms, in man 1965 | in Ivory Coast 201, 571 | effects on labrum mechanoreceptors of |
| to melittin, in man 2542 | in Sierra Leone 1379 | 3087 |
| to Myocoptes musculinus, in mouse | in sugar-cane plantations, in Ivory Coast | infectivity of 2153 |
| 2022 | 201 | transmission of 3086 |
| to phospholipase A ₂ , in man 634, 2542 | on antelope, in Sierra Leone 1379 Trypanosoma brucei in, transmission of | T. congolense in effects on labrum mechanoreceptors of |
| to Siphonaptera, in man 1544 to Vespula venoms, in man 401, 2542 | 1379 | 3087 |
| G | Glossina longipennis | in proboscis 3088 |
| to Apis mellifera venom, in man 401, | in Kenya 860 | transmission of 1933 |
| 3184 | rainfall as affecting 860 | Glossina morsitans submorsitans |
| to Dermacentor andersoni, in guinea-pig | Glossina medicorum | control of, insecticides for 1386 |
| 3190 | biology of 2151 | eggs of 1376 |
| to Dermatophagoides pteronyssinus, in | in Ivory Coast 201 | surface structure of 1672 |
| man 937, 2649 | in Upper Volta 2151 | in Nigeria 859 |
| to grass pollen, in man 2649 | in riverine forests, in Upper Volta 2151 | population dynamics of, analysis of 859 |
| to Ixodes ricinus, in rabbit 1751 | in sugar-cane plantations, in Ivory Coast | Glossina nigrofusca, in Ivory Coast 571 |
| to Lucilia cuprina, in sheep 2882 | 701 | Glossina nigrofusca nigrofusca |
| to phospholipase A ₂ , in man 634 to Vespula venoms, in man 401 | Trypanosoma spp. in, in Upper Volta 2151 | control of, insecticides for 1120 in Ivory Coast 1120 |
| Glossina | Glossina morsitans | Glossina pallicera, in Ivory Coast 571 |
| adults of, larval fat-body not present in | adults of, determining age of 566 | Glossina pallicera pallicera |
| 586 | biology of 2151 | control of, insecticides for 1120 |
| biology of 727 | control of | in Ivory Coast 1120 |
| control of 736, 2461, 2462 | habitat destruction for 3134 | Glossina pallidipes |
| aerial sprays for 4 | insecticide residues from 373 | attractants for 573 |
| for sleeping sickness control 2829 | insecticides for 373 | control of |
| for trypanosomiasis control 2150 | feeding behaviour in 1115 | insecticides for 1385 |
| genetic 2268, 2316 insecticides for 201, 567, 570, 571, | in Nigeria 2046 in Tanzania 3134 | non-target effects of 1385 traps for 368 |
| 1380, 1383, 2831, 2833, 2836, 3128 | in Uganda 373 | eggs of 1376 |
| sterile-insect release for 570 | in Upper Volta 2151 | surface structure of 1672 |
| traps for 1935, 2831, 3128, 3131 | marking of | host-finding behaviour in, role of flight in |
| in Ivory Coast 1118 | radiocarbon for 574 | 3136 |
| in Upper Volta 2831 | radiophosphorus for 574 | hosts of 2830, 3133 |
| in cacao plantations, in Ivory Coast 571 | on livestock, in Nigeria 2046 | human odour as affecting 573 |
| in coffee plantations, in Ivory Coast 571 | preyed on by, guinea-pig 1115 | in Kenya 860, 1387, 1670, 2463 |
| in dwellings, in Congo 2836 | rearing of 1668 | in Uganda 2830, 3133 |
| laboratory hosts of, veterinary problems | techniques for 370 | in Zimbabwe 368, 573, 1385, 3136 |
| with 2467 land use as affecting, review 2464 | resting places of 2837 salivary glands in, culture-medium | lactic acid as affecting 573 mating in 1375, 1670, 2463 |
| on man, in Congo 1116, 2836 | component for, Trypanosoma brucei | rainfall as affecting 860 |
| on rabbit, amyloidosis caused by 371 | 2469 | rearing of, techniques for 2828 |
| parasites of, in Kenya 2986 | seasonal abundance of 2046 | Serratia marcescens in, pathogenicity of |
| population dynamics of, analysis of 859 | Trypanosoma brucei in, infection through | 1117 |
| re-invasion of cleared areas by 2833 | membranes with 2468 | Trypanosoma spp. in, in Uganda 2830 |
| rearing of, techniques for 729 | T. congolense in | T. brucei in, in Kenya 1387 |
| salivary glands in, as culture-medium | development of 2470 | T. congolense in |
| component for trypanosomes 568 | effects on feeding behaviour of 199 | in Kenya 1387 |
| taxonomy of, egg surface structures as | infection through membranes with 2468 | localisation of 3132 |
| characters for 1672 traps for 202 | localisation of 199 | T. vivax in, in Kenya 1387 Glossina palpalis |
| Trypanosoma spp. in, transmission of | T. theileri in, development of 1388 | biology of 2151 |
| 2950 | Glossina morsitans centralis | control of, insecticides for 1119, 1386, |
| Glossina austeni | control of | 2826, 2827 |
| adults of, determining age of 566 | insecticides for 1374 | in Ivory Coast 1119, 2826, 2827, 2832 |
| eggs of 1376 | non-target effects of 1374 | in Nigeria 1386 |
| surface structure of 1672 | in Zambia 372, 1374 | in Upper Volta 2151 |
| feeding behaviour in 1115, 2152 | males of, seasonal size variation in 372 | in coffee plantations, in Ivory Coast |
| flight activity in, rhythm of 1673 | population dynamics of 372 | in forests, effects of human activity on |
| insecticide solvents in, toxicity of 303 preyed on by, hosts 1115 | Glossina morsitans morsitans attractants for 573 | in forests, effects of human activity on 2832 |
| rearing of 1668 | control of | integument in, water-vapour diffusion |
| Trypanosoma brucei in, effects on feeding | insecticides for 1385 | through 2982 |
| behaviour of 2152 | non-target effects of 1385 | resting places of 2837 |

490 Glossina palpalis contd. Trypanosoma brucei in, transmission of 1264 Glossina palpalis gambiensis adults of, determining age of 566 control of insecticides for 1381, 1382, 2465, 2834, 3129 sterile-insect release for 200, 565, 2722 traps for 3129 dispersal of, effects of laboratory rearing dispersal of, effects of laboratory rearing on 200 in Ivory Coast 200 in Mali 1381, 1382, 2834 in Upper Volta 565, 2722, 3129 life-span in, effects of laboratory rearing on 200 mating competitiveness in, effects of γ-irradiation on 565 on rabbit effects of drugs in host on 1121 effects of drugs on 2835 re-invasion of cleared areas by rearing of, techniques for 565, 3137 sterilisation of, y-irradiation for 565, 2722 Trypanosoma brucei in, transmission of Glossina palpalis palpalis biology of 571 control of insecticides for 203, 572 traps for 57 eggs of 1376 surface structure of 1672 endosymbiotic bacteroids in, properties of flight activity in, rhythm of 1673 heparin in, effects of 1566 hosts of 367 in Congo 1932 in Ivory Coast 201, 571, 572, 1118, 1669 in Nigeria 367 in cacao plantations, in Ivory Coast in coffee plantations, in Ivory Coast in dwellings, in Congo 1932 in sugar-cane plantations, in Ivory Coast Mermithidae in, in Ivory Coast 1669 on man, in Ivory Coast 1669 traps for 367 Trypanosoma brucei in, transmission of 570, 1118 Glossina tachinoides adults of, determining age of 566 biology of 2151 control of control of insecticides for 1386, 2465, 3129, 3130 traps for 3129, 3130 in Ivory Coast 2837 in Nigeria 367, 1386 in Upper Volta 2151, 2722, 2837, 3129, 3130 in gallery forests, in West Africa 2837 resting places of 2837 traps for 367 Trypanosoma brucei in, transmission of 570, 1264 Glossinidae Glossinidae
feeding behaviour in 610
hosts of 610
in Uganda 3180
Trypanosoma spp. in 569
α-D-Glucopyranoside, β-D-fructofuranosyl
(saccharose; sucrose) as cryoprotectant for spores of
Microsporidia 612
diet component for

Hydrotaea irritans 377 Ophyra aenescens 908

D-Glucose

in Anopheles stephensi hemolymph 1049

in Anopheles stephensi hemolymph 1049

in Periplaneta americana fat-body, effects of octopamine on 2699

diet component for, Ophyra aenescens

in Atrax robustus venom 2660

L-Glutamic acid Glycerides Glycogen Dermatophagoides farinae 2569 Glycolysis Phormia terraenovae feeding responses to α -D-Glucopyranoside, α -D-glucopyranosyl (trehalose)

p-Glucose contd.

of 1975

activity of 1

farinae 2569

in Musca domestica, during cold stress

Glycosidase, in Stomoxys calcitrans pupae

Glycyphagidae, in house dust, in Brazil

1652

2041

2170

Glycyphagus domesticus in Peru 273 in Portugal 1795 in UK 2650

(maltose)

in Musca domestica, catabolism during cold stress of 2170 in Phormia terraenovae, catabolism during cold stress of 2170 in Tyrophagus putrescentiae, metabolism D-Glucose, 4-O-α-D-glucopyranosyldiet component for, Ophyra aenescens in Anopheles stephensi hemolymph 1049 D-Glucuronic acid, in Anopheles stephensi hemolymph 1049 Glucuronidase, β -, in Stomoxys calcitrans pupae 1714 Glutamate dehydrogenase (see Dehydrogenase, glutamate) in Calliphora vicina hemolymph 619 in Carcinus maenas hemolymph 619 in Locusta migratoria, effects on motor in Locusta migratoria hemolymph 619 fate of 618 in Lucilia sericata, effects on motor activity of 1
in Lucilia sericata hemolymph 619
fate of 618 in Periplaneta americana hemolymph in Schistocerca gregaria hemolymph 619 L-Glutamic acid, N-[4-[[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzoyl]-(see Methotrexate) L-Glutamine, in insect hemolymph 619 Glutathione (see Glycine, N-(N-L-γ-glutamyl-L-cysteinyl)-) in Glossina morsitans milk, synthesis of 2149 in grain mites 2020 in insects, digestion and absorption of, review 1815 in Mermithidae, and in hosts 2820 in Musca domestica cuticle, role in insecticide resistance of 1162 in Periplaneta americana diet, absorption of 317 in Tyrophagus putrescentiae, incorporation of 1,3-butanediol into Glycerol (see 1,2,3-Propanetriol)
Glycine, in Atrax robustus venom 2660
Glycine, N-(N-L-\gamma-glutamyl-L-cysteinyl)in Culex quinquefasciatus diet, phagostimulant activity of 1554 in Anopheles atroparvus, extracellular 2435 in Anopheles stephensi, extracellular 2435 Glycine max (see Soyabean) diet component for, Dermatophagoides in Aedes aegypti, Dipetalonema dessetae depleting reserves of 2367 in Aedes aegypti mid-gut, during digestion in Blatta orientalis fat-body, seasonal changes in 2322 in Cheyletus eruditus diet, digestion of in insects, reserves of 2536 in Periplaneta americana effects of X-irradiation on 477 utilisation during flight of 1837 in Periplaneta americana fat-body, seasonal changes in 2322

in house dust in Peru 273 in Portugal 1795 on man, hypersensitivity to 2650 Glycyphagus helveticus sp. nov., description of 1451 in Switzerland 1451 in Arvicola terrestris nests, in Switzerland 1451 Glycyphagus privatus in Iran 1205 in Peru 273 in house dust in Iran 1205 Glyptotendipes barbipes chromosomes in 598 fresh-water race of in Bulgaria 598 in USSR 598 salt-water race of 598 Goat (Capra hircus)

Anaplasma mesaeterum in, infectivity of
651 arthropod parasites of, in Fiji 1262 arthropod pests of, in Nigeria 2045, 2046 bluetongue virus in 123 cantharidin in, detecting of 910 Chorioptes bovis on, in New Zealand 2001 Cowdria ruminantium in, in Zimbabwe 2004 Culicoides spp. on in Cyprus 359 in England 3107 in Nigeria 3106 Demodex caprae on damage to skin by 1206 effects of weather on 3220 in Mexico 2241 Glossina morsitans on, skin reactions to 3086 G. palpalis on, effects of heparin on 1566 Haemaphysalis longicornis on, in New Zealand 2001
Ixodidae on, in Punjab 268
Mansonia spp. on, in Gambia
mites on, in Haryana 2646
pest control on 2001 Psoroptes cuniculi on in Fiji 2915 in New Zealand 2001 P. ovis on, in Lesotho 272 Rift Valley fever, virus in, in Egypt Sarcoptes spp. on, in Zambia 2462 2362 Triatoma barberi on, in Mexico Trypanosoma spp. in, in Kenya 860
Gohieria fusca
in Peru 273
in house dust, in Peru 273 Gold mines, Culex tarsalis in, in Colorado 2423 Golden Bear 1356 against Culex peus, in catch basins C. quinquefasciatus, in catch basins
114 Goldfish (see Carassius auratus)
Golenkinia radiata, Chironomidae building
nests from 2870 Golf courses mosquito control in 2118 Tabanidae in, in USA 2862 golovi, Ctenophthalmus golovi, Tabanus gomezi, Lutzomyia Gongylonema verrucosum, in, Scarabaeidae, in Georgia (USA) 244, 1740 Gopher, south-eastern pocket (see Geomys pinetis) gorgasi, Anopheles gossypii, Aphis grahami, Aldrichina grahami, Nearctopsylla in Phormia terraenovae, during cold stress grahamii, Culicoides
Grain stores, Anopheles spp. in, in Kenya 3053 Gramineae (see Poaceae) granarius, Sitophilus grandis, Armillifer granulatus, Onthophagus

| Subject Index | | 491 |
|---|--|--|
| Granuloma, in man, caused by Demodex | gudauricus, Hirstionyssus | Haemaphysalis doenitzi |
| folliculorum 676 | guilhoni, Rhipicephalus | descriptions of 1200 |
| Grapevine (Vitis vinifera) | Guinea-pig (Cavia cobaya) | in Australia 1200 |
| Grapevine (stored fruit), Polistes gallicus in, | Aedes aegypti on, feeding by 1655 | on Centropus phasianus, in Queensland |
| imported into Iceland 2537 | Apis mellifera venom in, airway | 1200 |
| Grass clippings, Diptera in, in California | constriction caused by 2539 | on Isoodon macrourus, not feeding 1200 |
| 207 | Buthus occitanus venom in, cardiovascular | on mouse, feeding by 1200 |
| Grass, elephant (see Pennisetum | effects of 3237 | on Rattus fuscipes, feeding by 1200 |
| purpureum) Grass pollen, in man, antibodies to 2649 | Dermacentor andersoni on antibodies to 3190 | taxonomy of, misidentified as <i>H. bancrofti</i> |
| Grassland, Dermacentor reticulatus in, | basophil responses to 2620 | Haemaphysalis flava |
| development of 2561 | immunization against 1180 | in USSR 1434 |
| Grazing, role in tick control of 2547 | resistance to 408, 1438 | on Erinaceus europaeus, in Soviet Far |
| Greece | D. variabilis on | East 1434 |
| Anopheles maculipennis in 2364 | feeding by 914 | Haemaphysalis hispanica |
| A. sacharovi in 2364 | mating by 1759 | biometrics of 1479 |
| A. superpictus in 2364 | Dermatophagoides pteronyssinus on, | in France 1479 |
| Phlebotominae in 2448 | hypersensitivity to 285, 2238 | in Spain 1479, 1494 |
| Thaumetopoea pityocampa in, on man 2895 | Glossina spp. on, feeding by 1115 | on Lepus capensis, in Spain 1479 |
| gregaria, Schistocerca | G. palpalis on effects of heparin on 1566 | on rabbit, in Spain 1479 seasonal abundance of 1494 |
| grekovi, Sergentomyia | rearing of 565, 3137 | Haemaphysalis inermis |
| Gressittia, in Philippines 2888 | Ixodes ricinus on, detachment of 918 | distribution of 457 |
| griseinus, Tabanus amaenus | Ixodidae on, resistance to 2546 | hygienic importance of 457 |
| Griseofulvin, against, Catenaria anguillulae, | Loxosceles reclusa venom in, complement | Haemaphysalis intermedia |
| in Romanomermis 105 | inactivation by 682 | in India 48 |
| Grocery shops, insect pests in, in East | preying on, Glossina morsitans 1115 | on Antilope cervicapra, in Assam 48 |
| Germany 1832 | Simulium mexicanum on, feeding by | Haemaphysalis japonica |
| Gromphadorhina brunneri (see Elliptorhina | 1368 Trivecerus caviae on effects of 1709 | in USSR 1434, 1754, 2223 |
| Gromphadorhina portentosa, gut cuticle in, | Trixacarus caviae on, effects of 1799 Guntheria | occurrence-environment maps for 1754 on Erinaceus europaeus, in Soviet Far |
| permeability of 2700 | habitats of 1772 | East 1434 |
| grossbecki, Aedes | on mammals, in Papua New Guinea | Haemaphysalis japonica douglasi |
| Ground squirrel, California (see | 1772 | in USSR 1744 |
| Spermophilus beecheyi) | Guntheria scrobiculata | on Apodemus agrarius, in Soviet Far East |
| Growth rate | in Papua New Guinea 1786 | 1744 |
| in Bos indicus \times B. taurus, effects of | on Peroryctes raffrayanus, in Papua New | Haemaphysalis kyasanurensis |
| Boophilus microplus on 252 | Guinea 1786 | in India 265 |
| in cattle effects of <i>Haematobia irritans</i> on 1701 | guptai, Neotrombicula | Kyasanur Forest disease, virus in, in |
| effects of Hypoderma on 575 | guttipennis, Culicoides Guyana, Anopheles aquasalis in, on man | Karnataka 265 Haemaphysalis leachii, parasitised by, |
| effects of Theileria on 2225 | 968 | Hunterellus hookeri 474 |
| not affected by Damalinia bovis 3015 | Gymnopais, labro-cibarial sensilla and | Haemaphysalis leachii leachii |
| not affected by Linognathus vituli | armature in 187 | Ackertia globulosa in |
| 3015 | Habronema muscae, in, Muscidae, in | development of 1749 |
| in fowl | Uzbekistan 77 | transmission of 1749 |
| effects of lice on 2333 | Haemagogus, yellow fever, virus in, in | control of, acaricides for 644 |
| not affected by carbaryl 2943 | Trinidad 2131 | in Kenya 644 |
| in horse, effects of Gasterophilus on 3141 | Haemagogus janthinomys, in Colombia 1344 | on Lemniscomys striatus 1749 |
| in livestock, effects of Tabanidae on | Haemaphysalis | toxaphene resistance in, in Kenya 644 Haemaphysalis leporispalustris |
| 2862 | Congo virus in, transmission of 256 | climbing behaviour in 1190 |
| in pig, not affected by Haematopinus suis | distribution of 650 | drop-off in, effects of photoperiod on |
| 3018 | in Nansei Islands 719 | 2954 |
| Growth regulators, role in control of Acari | Rickettsia spp. in, transmission of 2574 | feeding in, effects of photoperiod on |
| of 2548 | tick-borne encephalitis | 2954 |
| Gryllidae, in Fennoscandia 51 | virus in | in Canada 3192 |
| Grylloidea, on man, hypersensitivity to | trans-stadial transmission of 2910 | in USA 1202, 2282, 3189 |
| 2896 Cryllus himaculatus hody temperature in | transovarial transmission of 2910 | light responses in 1191 |
| Gryllus bimaculatus, body temperature in, measuring of 1261 | Haemaphysalis anomala in India 268 | on Lepus americanus, distribution pattern of 3192 |
| Guam (indexed under Mariana Islands) | on cattle, in Punjab 268 | on Odocoileus virginianus, in Texas 1202 |
| Guama viruses | Haemaphysalis aponommoides | on Sylvilagus floridanus, in Virginia |
| in | in Nepal 1993 | 2282 |
| Coquillettidia venezuelensis, in | on man, in Nepal 1993 | seasonal abundance of 3192 |
| Suriname 544 | on sheep, in Nepal 1993 | Spiroplasmataceae in, pathogenicity for |
| Culex spp., in Suriname 544 | Haemaphysalis bancrofti, taxonomy of, | vertebrates of 3189 |
| Culicidae in French Guiana 2732 | Haemaphysalis doenitzi misidentified as 1200 | Haemaphysalis longicornis carbon dioxide in, responses to 1986 |
| in Peru 1351 | Haemaphysalis bispinosa | control of |
| Phlebotominae, in French Guiana | in India 48, 268, 1436 | acaricides for 2223, 3197 |
| 2732 | on Asian buffalo, in Punjab 268 | for theileriosis control 2223 |
| guangdongense, Leptotrombidium | on Boselaphus tragocamelus, in Assam | diurnal activity in 1986 |
| (Trombiculindus) | 48 | eggs of, separating from females of 1184 |
| guangdongensis, Trombiculindus (see | on cattle, in Punjab 268 | in Australia 1427 |
| Leptotrombidium guangdongense) | on dog, in Punjab 268 | in India 1436 |
| Guanidine, in Musca domestica, inhibition of ATPase by 1324 | on goat, in Punjab 268 on <i>Panthera leo</i> , in Assam 48 | in Japan 719, 1986 in New Zealand 2001, 3197 |
| Guanidine, N-cyano-N'-methyl-N"-[2-[[(5- | on sheep, in Punjab 268 | in South Korea 2225 |
| methyl-1H-imidazol-4- | Theileria ovis in, not transmitted 3188 | in USSR 2223 |
| yl)methyl]thio]ethyl]- (see Cimetidine) | Haemaphysalis canestrinii, in India 1204 | on cattle |
| Guanosine | Haemaphysalis concinna | growth of 1426 |
| cyclic 3',5'-(hydrogen phosphate) | distribution of 457 | in Assam 1436 |
| in Amblyomma americanum, effects on | hygienic importance of 457 | in Japan 719 |
| salivation of 1978 | in USSR 9, 1434, 1744, 1754, 2223 | in New Zealand 3197 |
| in Musca domestica, effects on pupation | insect growth regulators in, effects of 1178 | in South Korea 2225 resistance to 1427 |
| of 1416 guasayana, Triatoma | occurrence-environment maps for 1754 | on goat, in New Zealand 2001 |
| Guatemala | on Apodemus agrarius, in Soviet Far East | on horse, in Assam 1436 |
| Culex opisthopus in, viruses in 1646 | 1744 | Theileria spp. in, transmission of 2225 |
| Simulium spp. in 2823 | on Erinaceus europaeus, in Soviet Far | Haemaphysalis minuta, in India 1204 |
| S. metallicum in, natural enemies of | East 1434 | Haemaphysalis neumanni (see H. |
| 2822 | seasonal abundance of 9 | longicornis) |

Haemolaelaps bidens

Haemaphysalis papuana kinneari

| in India 265 | in USSK //, 28/9 | sp. nov., description of 2/15 |
|--|--|---|
| Kyasanur Forest disease, virus in, in | on cattle, in Tuva ASSR 2879 | in Malaysia 2715 |
| Karnataka 265 | seasonal abundance of 2879 | on squirrels, in West Malaysia 2715 |
| Haemaphysalis punctata | Stephanofilaria stilesi in, in Uzbekistan | Haemolaelaps chersonesi |
| Anaplasma spp. in, transmission of 651 | // FF | sp. nov., description of 2715 |
| Coxiella burneti in, transmission of 2571 | Haematobosca, in Thailand 1731 | in Malaysia 2715 |
| distribution of 457 | Haematobosca sanguinolenta, in Japan | on Hylomys suillus, in West Malaysia |
| habitats of 2613 | 2177 | 2715 Haamalaalana alaggarri (saa Androlaalana |
| hygienic importance of 457 | Haematobosca stimulans | Haemolaelaps glasgowi (see Androlaelaps |
| in Italy 2613 | in West Germany 3157 | fahrenholzi) |
| in Yugoslavia 2217 | on cattle, in West Germany 3157 | Haemolaelaps longipes (see Androlaelaps |
| Haemaphysalis spinigera | Haematomyzus elephantis in India 2898 | longipes) Haemolaelaps petauristae |
| in India 265 | on Elephas maximus, in Karnataka 2898 | sp. nov., description of 2916 |
| Kyasanur Forest disease, virus in, in Karnataka 265 | Haematopinus eurysternus | in China 2916 |
| life history of 1997 | biology of 1771 | on Petaurista elegans, in China 2916 |
| Haemaphysalis sulcata, in USSR 1187 | control of, insecticides for 2702 | Haemolaelaps rohaniae |
| Haemaphysalis turturis | descriptions of 1771 | sp. nov., description of 2715 |
| in India 265 | in Australia 2702 | in Malaysia 2715 |
| Kyasanur Forest disease | in Poland 758 | on squirrels, in West Malaysia 2715 |
| virus in | on cattle | haemorrhoidalis, Aphodius |
| in Karnataka 265 | in New South Wales 2702 | haemorrhoidalis, Gasterophilus |
| transmission of 265 | losses caused by 1771 | haemorrhoidalis, Sarcophaga |
| Haemaphysalis wellingtoni, in India 1204 | role in skin mycosis of 758 | hageni, Smicromyrme |
| haemaphysaloides, Rhipicephalus | Haematopinus quadripertusus, in USA | hagenowii, Tetrastichus |
| Haematobia | (Hawaii) 2280 | Haiti |
| control of, insecticides for 2166 | Haematopinus suis | Aedes aegypti in 1345 |
| in Thailand 1731 | control of, insecticides for 2334, 2926, | dengue in 1345 |
| on cattle, in West Germany 2166 | 3017 | Halcyon chloris, Amblyomma cyprium on, |
| Haematobia irritans | in Japan 708 | in New Hebrides 2207 |
| attraction of, to cattle, effects of | in Poland 2334 | haldemani, Leptinotarsa |
| testosterone on 867 | in West Germany 2926 | halffterorum, Phanaeus |
| biology of 1681 | on pig | halifaxii, Culex |
| canavanine in, toxicity of 1946 control of | effects of 3018 | hallae, Ornithocheyletia Hammerschmidtiella diesingi |
| | in Japan 708 in Poland 2334 | descriptions of 2050 |
| biological 210, 1724, 2501 growth regulators for 1165 | in West Germany 2926 | in, Periplaneta americana, in Uttar |
| insecticides for 591, 630, 1701, 1702, | Haematopinus tuberculatus | Pradesh 2050 |
| 2848, 2849, 2884, 3168 | control of | hamoni, Eretmapodites |
| timing of 447 | burning of infested hair for 61 | Hamster, Simulium mexicanum on, feeding |
| diel activity in 592 | insecticides for 61 | by 1368 |
| distribution of 1681 | in India 1010 | Hamster blood, in Lutzomyia longipalpis |
| diurnal activity in 2840 | in Japan 708 | diet, suitability for egg production of |
| humidity as affecting 447 | in Pakistan 61 | 2135 |
| in Australia 1681 | on Asian buffalo | Hamster, golden (Mesocricetus auratus) |
| in Irish Republic 3172 | effects of 61 | Babesia microti in, tick transmission of |
| in Japan 592, 2840 | in Japan 708 | 3187 |
| in Netherlands 2503 | in Rajasthan 1010 | Ceratophyllus anisus on 2082 |
| in UK 2848, 2849 | seasonal abundance of 1010 | Haptoglobins, in man, for detecting multip |
| in USA 210, 591, 630, 1165, 1701, 1702, | Haematopota | feeding in mosquitoes 2096 |
| 3168 | in USSR 1135 | harpagonis, Echinonyssus |
| in USA (Hawaii) 2501 | on man, in Italy 969 | Harrison's Rule 1842 |
| in USSR 77 | tsetse control not affecting 1374 | Hart Park virus |
| in cattle dung | Haematopota pallens | in Andre describe replication of 1578 |
| in Australia 1681 in California 210 | control of, timing of 1152 development in 1152 | Aedes dorsalis, replication of 1578 Culicidae, in California 85, 1851 |
| in USA 1165 | in USSR 1152 | hasseltii, Latrodectus mactans (see L. |
| in dung, in Netherlands 2503 | Haematopota pluvialis | mactans) |
| on cattle | autogeny in 2157 | hastoclavus, Herpetacarus |
| effects on growth rate of 1701 | in France 2157 | Hawaii |
| effects on milk production of 2848 | Haematopota przewalskii | Aedes albopictus in 2372 |
| in Hokkaido 592 | sp. nov., description of 2514 | A. vexans in 2280, 2372 |
| in Honshu 2840 | in China 2514 | arthropod pests in, new records of 313 |
| in Kansas 1702 | Haematostoma, in Thailand 1731 | Culex quinquefasciatus in 2372 |
| in Louisiana 3168 | Haemogamasidae, on small mammals, in | Haematobia irritans in 2501 |
| in Texas 591, 630 | Bulgaria 1778 | Haematopinus quadripertusus in 2280 |
| in UK 2849 | Haemogamasus | Linognathus vituli in 2280 |
| on sheep, role in vulvitis of 3172 | on mammals, in Mexico 2583 | Vespula vulgaris in 2280 |
| preyed on by, Philonthus flavolimbatus | on rodents, in Hokkaido 2009 | Hawkweed, king-devil (see Hieracium |
| 220 rearing of | Haemogamasus ambulans descriptions of 931 | pratense) HCB (see Benzene, hexachloro-) |
| problems in 1407 | in USSR 667, 931 | HCH (1,2,3,4,5,6-hexachlorocyclohexane) |
| techniques for 1407 | on small mammals, in USSR 667 | against |
| seasonal abundance of 592, 2840 | Haemogamasus dauricus, in Bulgaria, not | Anopheles culicifacies 1908 |
| Stephanofilaria stilesi in, in Uzbekistan | found 1777 | A. philippinensis 3101 |
| *77 | Haemogamasus liponyssoides, in Bulgaria, | Dermanyssus gallinae 3211 |
| temperature as affecting 447 | not found 1777 | Glossina spp. 201 |
| Haematobia irritans exigua | Haemogamasus monticola | G. palpalis 572 |
| adults of, larval fat-body not present in | in China 2639 | Leporacarus gibbus, on rabbit 418 |
| 586 | on Typhlomys cinereus, in China 2639 | Psoroptes spp. |
| biology of 2017 | Haemogamasus nidi | on cattle 2239 |
| control of | in Czechoslovakia 1792 | on sheep 2239 |
| biological 1145, 2310, 2315, 2893 | in Poland 935 | Triatoma infestans 2337 |
| insecticides for 1937 | on bat, in Poland 935 | in pig, toxicity of 2631 |
| in Australia 1145, 2310, 2315 | on Clethrionomys glareolus, in | with 2-chloro-3-methyl-6-(1- |
| in India 1937, 2017 | Czechoslovakia 1792 | methylethyl)phenol, 5-methyl-2-(1- |
| on Asian buffalo in India 1937 | Pasteurella tularensis in, in Czechoslovakia 1792 | methylethyl)phenol, phenylmethyl |
| in Karnataka 2017 | Haemogamasus nidiformes | benzoate, prednisolone, and propanoi acid |
| on cattle, in Karnataka 2017 | in Bulgaria 1778 | against |
| Haematobia irritans irritans, adults of, | on small mammals, in Bulgaria 1778 | Demodex spp., on dog 1448 |
| larval fat-body not present in 586 | vertical distribution of 1778 | Sarcoptes spp., on dog 1448 |
| , F | | 1 |

Haematobia thirouxi titillans

| Subject Index | |
|---|---|
| y-HCH (see Lindane) | Hempa contd. |
| Headache, in man, caused by Grylloidea 2896 | in Boettcherisca peregrina, effects of 2489 |
| Heartwater (see also Cowdria ruminantium) hebraeum, Amblyomma | in <i>Periplaneta americana</i> , effects on corpora cardiaca of 1520 |
| hebraeus, Polistes (see P. olivaceus) | sterilant for, Aedes aegypti 127 |
| Hectopsylla psittaci | hendersoni, Aedes |
| in Brazil 2352 | 1-Hentriacontene, 13-methyl-, Stomoxys |
| in Chile 2352 | calcitrans sex-pheromone component |
| in USA 2352 | 593 9-Hentriacontene, (Z)-, Stomoxys calcitrans |
| on Bubo virginianus, in California 2352 on Petrochelidon pyrrhonota, in California 2352 | sex-pheromone component 593 HEOD (see Dieldrin) |
| hegu, Gahrliepia | Heparin |
| Helichrysum angustifolium (dried flowers), | antifeedant for, Aedes aegypti, on guinea- |
| Pyemotes zwoelferi in 3210 | in cat, counteracting effects of Vespa |
| Helicobia aurescens, in Brazil 2856 | orientalis venom 632 |
| Helicosporidium in | in goat, effects on Glossina palpalis of |
| Aedes aegypti, in Thailand 1606 | 1566 |
| Culex quinquefasciatus, in Thailand | in guinea-pig, effects on Glossina palpalis of 1566 |
| 1606 | Hepatitis B surface antigen, in, Cimex |
| Helina impuncta, biology of 1689 | lectularius, transmission of 2710 |
| Heliomyzidae, in prehistoric graves, in New | Hepatitis B virus, vectors of 980 |
| Brunswick 217 Heliothis zea, Microsporidia in, recovery of | Heptachlor (1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-4,7-methano-1 <i>H</i> - |
| spores of 178 | indene) |
| Helminths, in, man, arthropod transmission | in rat, toxicity of 3250 |
| of 2279 | Heptadecanamine, N,N-dimethyl-, against, |
| Helodidae, in tree holes, in Spain 1490 helveticus, Glycyphagus | Psoroptes cuniculi, on rabbit 1218 Heptadecanoic acid, 2-ethyl-, against, Culex |
| Hemagglutination tests, for detecting Bhanja | quinquefasciatus 1856 |
| virus in Hyalomma asiaticum 1763 | 4-Heptanone, 2,6-dimethyl-, in Musca |
| Hematuria, in horse, caused by Epicauta | domestica, toxicity of 303 |
| 402 | Heptenophos (7-chlorobicyclo[3.2.0]hepta- |
| Hemicholinium-3, in Periplaneta americana, blocking trochanteral hairplate afferents | 2,6-dien-6-yl dimethyl phosphate) against |
| 3013 | Haematopinus suis, on pig 2926 |
| Hemicnetha, in streams, in Costa Rica | Sarcoptes scabiei, on pig 2926 |
| 3118 Hemilucilia segmentaria | Herbicides |
| in Costa Rica 2532 | in game animals, toxicity of 305 role in tick control of 2547 |
| in human cadavers, in Costa Rica 2532 | herbosalis, Eulaelaps (see E. multisetatus) |
| Hemiptera | hermanni, Argas |
| aquatic, in California 1567 glycogen in, reserves of 2536 | Hermetia illucens control of, insecticides for 2494 |
| in bat guano, in New Hampshire 1820 | dispersal of, role of man in 388 |
| on man, bites by, review 1011, 1012 | distribution of 388 |
| preying on, molluses 2037 | in Spain 388 |
| semi-aquatic, in California 1567 vertebrate associations of, evolution of | in USA 2494 in fowl dung, in Kentucky 2494 |
| 2294 | hermsi, Ornithodoros |
| hemipterus, Cimex | Heron, Quaranfil virus in, in Egypt 2903 |
| Hemipyrellia, taxonomy of 1143 | Herpetacarus aristatoclavus |
| Hemiscolopendra punctiventris punctiventris in USA 1259 | sp. nov., description of 2913 in China 2913 |
| on man, in Indiana 1259 | on Rattus edwardsi, in Yunnan 2913 |
| Hemoglobins | Herpetacarus breviclavus |
| diet component for, Xenopsylla spp. | sp. nov., description of 2913 |
| in cattle blood, effects of Ixodoidea on | in China 2913 on Rattus coxingi, in Yunnan 2913 |
| 2209 | Herpetacarus hastoclavus |
| in Psoroptes cuniculi blood-meals, | sp. nov., description of 2913 |
| in Stomoxys calcitrans blood-meals, | in China 2913 on Apodemus agrarius, in Yunnan 2913 |
| measuring of 218 | on Rattus flavipectus, in Yunnan 2913 |
| Hemolysis | on Sciurotamias forresti, in Yunnan |
| in man, caused by Loxosceles reclusa | 2913 |
| venom 685 | Herpetacarus makokoui |
| in pig, caused by Loxosceles reclusa venom 685 | sp. nov., description of 2931 in Gabon 2931 |
| Hemoproteins | on Atherurus africanus, in Gabon 2931 |
| in Musca domestica 2507 | Herpetacarus tenuiclavus |
| in Phormia regina 2508 | sp. nov., description of 2913 |
| in <i>Sarcophaga bullata</i> 2508 Hemo rrhage | in China 2913 on <i>Rattus nitidus</i> , in Yunnan 2913 |
| in cattle, caused by Simulium | Herpetomonas, biology of 45 |
| erythrocephalum 1106 | hertigi, Chatia (Shunsennia) |
| in horse, caused by Epicauta 402 | hertigi, Shunsennia (see Chatia hertigi) |
| in man, caused by Simuliidae 992 Hemorrhagic fever, Crimean | hesperus, Latrodectus (see L. mactans) Heterocera |
| model 2902 | body temperature in, measuring of 1261 |
| review 256, 1198 | preyed on by, Salticidae 293 |
| virus (see Congo virus) | heterochaeta, Passeromyia |
| Hemorrhagic fever, dengue in Java 1084, 1294 | Heterodoxus spiniger in USA 57, 1530 |
| role of virus virulence and vector | on Canis latrans, in Texas 1530 |
| competence in 784 | Heterogeneidae on man effects of 710 |

Heterometrus fulvipes

embryonic development in, not involving

sacrifice by mother 3235 enzymes in 950

Hemorrhagic fever, Korean, virus, in, Trombiculidae, transmission of 994

in Aedes aegypti, toxicity of 127

Hempa (hexamethylphosphoric triamide)

493 Heterometrus fulvipes contd. heart in, sex differences in 950 muscles in 678 on frog, effects of sting by 948 oxygen consumption in, rhythm of 2027 venom of 686, 948, 3239 Heteropoda venatoria biology of 1223 descriptions of 1223 in USA 1223 on man, bites by 1223 taxonomy of, confused with Loxosceles reclusa 1223 Heteroptera in USA, book 2999 on man, bites by, review 1011, 1012 scent glands in, review 997 Heterotylenchus, in, Musca domestica, in Brazil 2867 Heterotylenchus autumnalis, in, Musca autumnalis, effects on behaviour of 3
Hexadecanamine, N,N-dimethyl-, against, 1218 Psoroptes cuniculi, on rabbit 1-Hexadecanaminium, N,N,N-trimethylbromide, in diazinon formulations, effects on insecticidal activity of 3244 Hexadecane, in Lucilia sericata, leg paralysis caused by 399
Hexadecanoic acid in Aedes aegypti hemolymph, effects of Mermithid parasites on 2820 in Periplaneta americana, incorporation into hemolymph cholesteryl esters of in Periplaneta americana diet, incorporation into hemolymph glycerides of 317 in Tyrophagus putrescentiae, incorporation of 1,3-butanediol into 1975 9-Hexadecenoic acid (Z)in Aedes triseriatus, toxicity of 522 in Cladophora glomerata 522 in Cladophora glomerata 522 **2,4-Hexadienamide**, N-(2-methylpropyl)-, (2E,4E)-, in Aedes triseriatus, not toxic hexagonus, Ixodes (Pholeoixodes) hexagonus, Pholeoixodes (see Ixodes hexagonus) Hexamethonium (N,N,N,N',N',N'-hexamethyl-1,6-hexanediaminium) in cattle, blocking stimulation of epinephrine secretion by Leiurus quinquestriatus venom 683 in Periplaneta americana, blocking trochanteral hairplate afferents Hexane in Manduca sexta, terminating pupal diapause 2191 in Sarcophaga crassipalpis, terminating pupal diapause 2191

1,6-Hexanediaminium, N,N,N,N',N',N'hexamethyl- (see Hexamethonium) Hexanema (see Dichlofenthion) Hexanoic acid, oviposition repellent for, Culex spp. 97, 2791 Hexanoic acid, 6-amino- (see Aminocaproic acid) Hexicide (see Lindane) hexodontus, Aedes Hexokinase (see Kinase (phosphorylating), hexo-) HHDN (see Aldrin) Hieracium pratense, Aedes spp. on, nectar feeding by 1574 hilaris, Laelaps hildae, Culicoides hilli, Anopheles Hippelates attractants for 208 collecting of, review 231 control of, insecticides for 145 Hippelates collusor, attractants for 208, Hippobosca camelina in Israel 2992 on camel, in Israel 2992 Hippobosca equina in Spain 1495 on horse, in Spain

Hippobosca longipennis

in Israel 2992

494 Hippobosca longipennis contd. in Japan 3163 on dog, in Israel 2992 Hippobosca maculata (see H. variegata)
Hippobosca variegata, genitalia in 2167 Hippoboscidae feeding behaviour in 610 hosts of 610 in Comoro Islands 2690 in New Jersey 28 in livestock farms, in Bulgaria 877 on game, book 2261 hippopotami, Rhinoestrus Hippopotamus Glossina brevipalpis on, in Uganda 3133 Rhinoestrus hippopotami on, in Zimbabwe 1122 Hippopotamus amphibius, Glossina brevipalpis on, in Uganda 2830 Hippotraginae, Oestrinae on, in Africa 2474 Hirstia, in house dust, interactions with other mites of 2563 Hirstia domicola in Colombia 3225 in house dust, in Colombia 3225 Hirstionyssidae, on small mammals, in Bulgaria 1778 Hirstionyssinae, taxonomy of 2235 Hirstionyssus, on mammals, in Mexico 2583 Hirstionyssus apodemi (see H. sunci) Hirstionyssus butantanensis in Bulgaria 1777 taxonomy of, misidentified as *H. musculi*, in Bulgaria 1777 Hirstionyssus gudauricus in Bulgaria 1778 on small mammals, in Bulgaria 1778 vertical distribution of 1778 Hirstionyssus isabellinus in Japan 2009
in USSR 667, 931
on rodents, in Hokkaido 2009
on small mammals, in USSR 667
seasonal abundance of 2009 Hirstionyssus latiscutatus (see H. butantanensis) Hirstionyssus macedonicus, in Bulgaria, not found 1777 Hirstionyssus meridianus, in Bulgaria, not found 1777 Hirstionyssus musculi taxonomy of Hirstionyssus butantanensis misidentified as, in Bulgaria 1777 H. sunci misidentified as, in Bulgaria Hirstionyssus staffordi in USA 1256 on Mephitis mephitis, in Indiana 1256 on Taxidea taxus, in Andrews Hirstionyssus sunci in Bulgaria 1777 taxonomy of, misidentified as H. musculi, in Bulgaria 1777 Hirstionyssus trogopteri descriptions of 2916 on Taxidea taxus, in Indiana 1256 descriptions of 2916 in China 2916 on *Petaurista elegans*, in China 2916 hirsuta, Paratriatoma Hirsutiella zachvatkini (see Neotrombicula zachvatkini) zachvatkini) hirsutus, Glaucops hirtipes, Xenopsylla hirundinis, Ceratophyllus hirundinis, Crataerina hirundinis, Eulaelaps hirundinis, Occiacus

Hirundo rustica, preying on, Cochliomyia hominivorax, in Texas 2857

dung-breeding flies, and biological

control using, in New Hebrides

hispanica, Haemaphysalis

bimaculatus)

in Indonesia 210

Hister chinensis

preying on

Hispaniola, Tabanidae in 3161

Hister bimaculatus (see Peranus

Hister chinensis contd. preving on contd. Haematobia irritans, and biological control using, in California 210 Musca autumnalis, and biological control using, in California 210 Historidae preying on dung-breeding flies 1169 Lardoglyphus falconidus, in New York 276 1813 trans for L-Histidine Histidine
in Aedes aegypti, as nitrogenous waste
product 1628
in Anopheles stephensi hemolymph,
effects of Plasmodium berghei on Histiostoma, in house dust, in Peru 273 HMAC (see 1-Aziridinecarboxamide, N,N'-1,6-hexanediylbis-)
Hog (see Pig) hoguei, Culicoides Hohorstiella, on Streptopelia turtur, in Spain Holcocephala fusca feeding behaviour in 1553 foraging in 1553 in USA 1553 prey of 1553 hollensis, Culicoides holocyclus, Ixodes
Homarus, Latrodectus tredecimguttatus
venom in, effects on neuromuscular
junctions of 2251 hominis, Dermatobia
hominis, Sarcoptes scabiei (see S. scabiei) hominivorax, Callitroga (see Cochliomyia hominivorax) hominivorax, Cochliomyia (Callitroga) Homo sapiens (see Man) homochrous, Culicoides L-Homocysteine, in Aedes aegypti, Brugia pahangi stimulating synthesis of methionine from 1571 Homontera in Comoro Islands 2690 insecticide resistance in 428 intracellular symbionts in, review 2301 on man, bites by, review 1011, 1012 preyed on by, *Holcocephala fusca*, in Virginia 1553 L-Homoserine, O-[(aminoiminomethyl)amino]in Haematobia irritans, toxicity of 1946 in Musca autumnalis, toxicity of 1946 in Musca domestica, toxicity of 1946 in Stomoxys calcitrans, toxicity of 1946 Honduras Aedes aegypti in 1348 dengue in 1348 Honey, diet component for, Hydrotaea irritans 377 Honeydew, diet component for, Hydrotaea irritans 377
hoogstraali, Parasteatonyssus hookeri, Hunterellus Hoplopleura, in China 2335 Hoplopleura acanthopus in Bulgaria 1287 on Microtus arvalis, in Bulgaria 1287 Hoplopleura captiosa in Japan 708 on Mus caroli, in Japan 708 Hoplopleura edentula, in Bulgaria Hoplopleura merionidis in USSR 60 on Meriones erythrourus, in Tadzhikistan on Meriones meridianus, in Tadzhikistan on Meriones tamariscinus, in Tadzhikistan Hoplopleura oenomydis in Japan 708 on Rattus norvegicus, in Japan on Rattus rattus, in Japan 708

Hoplopleura ondatraria sp. nov., description of 2335 in China 2335

hosts of 1283

on Ondatra zibethica, in China 2335 Hoplopsyllus anomalus Hoplopsyllus anomalus contd. in USA 331, 1283 on Spermophilus beecheyi, in California 1283 Yersinia pestis in, transmission of 331 Hordeum distiction (see Barley)
Hordeum vulgare (see Barley) Hormones, in rabbit, effects on Glossina palpalis of 1121 palpais of 1121

Horse (Equus caballus)
arthropod parasites of, in Fiji 1262
arthropod pests of
in Nigeria 2045, 2046
in Spain 1495 Babesia caballi in, tick transmission of 2576 cantharidin in, detecting of 910 Culicoides spp. on, hypersensitivity to belkini on 1097 Demodex spp. on, in Mexico 2241 D. caballi on 277 eastern equine encephalitis virus in in Dominican Republic 2047 in Panama 2368 encephalitis viruses in, in Americas Epicauta spp. on, pathology of 402 fly control on insecticide formulations for 2476 insecticides for 2477
Gasterophilidae on
in Buryatia 1674
in Mongolia 1674
in USSR 3140 Gasterophilus spp. on in Kazakhstan 2839 in Mongolia 2044 in Mongolia 2 in USSR 3141 G. intestinalis on in Kentucky 2477 in USA 2478 G. nasalis on, in Kentucky 2477 Haemaphysalis longicornis on, in Assam 1436 Ixodidae on, in Punjab 268 louping ill, virus in, replication of 3207 Lutzomyia dispar on, in Brazil 1663 Oestridae on in Buryatia 1674 in Mongolia 1674 est control on 2044 Rhinoestrus purpureus on in Kazakhstan 2839 in USSR 3141 Simulium mexicanum on, in Colombia 1368 Stomoxys calcitrans on, hypersensitivity to 357 Tabanidae on, in Costa Rica 2496 Thelazia lacrymalis in, development of Trypanosoma brucei in, in Sierra Leone 1379 West Nile virus in, in France 968 western equine encephalitis virus in
in California 85, 1851
in Utah 1302

Horse dandruff, diet component for, Dermatophagoides pteronyssinus Horse dung arthropods in, in Queensland 911 Onthophagus gazellus in, effects on nematodes of 911 Horse stables, Culicidae in, in Yugoslavia horvathi, Atylotus hosonoi, Acanthophthirius Hospitals ant control in, insect growth regulators for 1175 cockroach control in, traps for 481 Monomorium pharaonis in in central Europe 235, 236 in West Germany 460 hospitii, Sergentomyia Hothouses, Formicidae in, in Manitoba 2204 houghi, Hydrotaea House dust allergens of role of cockroaches in 675, 1516

| House dust contd. | Hyalella azteca, preying on, Romanomermis | Hyalomma marginatum contd. |
|--|---|---|
| allergens of contd. | culicivorax 106 | habitats of 2613 |
| role of mites in 670, 675, 1443, 1516 | Hyalomma | in Italy 2613 |
| analysis of components of 933 | acaricide resistance in, in South Africa | in Poland 2900 |
| Calvolia domicola in, in Japan 2636 | 2016 | in USSR 1187, 2902 |
| Chortoglyphus longior in, in Honshu | biology of 2549 | in Yugoslavia 2217 |
| 2636 Dermetanhagoides faringe in | Congo virus in, transmission of 256 | on Motacilla flava, in Poland 2900 |
| Dermatophagoides farinae in in British Columbia 2014 | control of, acaricides for 254 Dugbe virus in, in Nigeria 2596 | tick-borne encephalitis |
| in Ohio 2566, 2567 | Rickettsia spp. in, transmission of 2574 | virus in changes in 2979 |
| in USSR 2236 | Hyalomma anatolicum | replication of, effects of temperature |
| D. pteronyssinus in | acaricide resistance in, thresholds of | on 2608 |
| in British Columbia 2014 | 2605 | Hyalomma marginatum isaaci |
| in North Dakota 2233 | Congo virus in, transmission of 256 | in India 268 |
| in Ohio 2566, 2567 | control of, acaricides for 246, 2605 | on Asian buffalo, in Punjab 268 |
| in USSR 2236 | Coxiella burneti in, transmission of 2571 trichlorphon resistance in | on camel, in Punjab 268 on cattle, in Punjab 268 |
| diet component for, Dermatophagoides | and cross-resistance 2593 | on goat, in Punjab 268 |
| pteronyssinus 271, 1209 | development of 2220 | on horse, in Punjab 268 |
| in man, hypersensitivity to 1443 mites in | Hyalomma anatolicum anatolicum | on sheep, in Punjab 268 |
| detecting of 1782 | in India 48, 268 | Hyalomma marginatum marginatum |
| effects of humidity on 1781, 1782 | on Asian buffalo, in Punjab 268 | Dhori virus in, in Portugal 653 |
| extracting of 1779 | on camel, in Punjab 268 on cattle | in Portugal 653 on cattle, in Portugal 653 |
| in Brazil 1453 | feeding by 919 | Hyalomma marginatum rufipes |
| in Bulgaria 1779 | in Punjab 268 | control of, acaricides for 644, 3209 |
| in Colombia 3225 | on dog, in Assam 48 | Dugbe virus in, replication of 2596 |
| in Czechoslovakia 1456 | on donkey, in Punjab 268 | in Israel 3209 |
| in Denmark 1781 | on horse, in Punjab 268 | in Kenya 644 |
| in India 2927 | rearing of, techniques for 919 | in South Africa 655 |
| in Iran 1205 in Ohio 1794 | Theileria annulata in, transmission of 1183, 2617, 3198 | in Zimbabwe 654 on cattle |
| in Peru 273 | Hyalomma anatolicum excavatum | in South Africa 655 |
| in Portugal 1795 | control of, acaricides for 3209 | in Zimbabwe 654 |
| in Puerto Rico 2647 | in India 2602 | seasonal abundance of 655 |
| in Sweden 2923 | in Israel 3209 | toxaphene resistance in, in Kenya 644 |
| interactions among 2563, 2564 | on Asian buffalo, distribution pattern of | Hyalomma marginatum turanicum, in Sudan |
| interactions with fungi of 2565 House-dust allergy | on cattle, distribution pattern of 2602 | 2007 |
| diagnosis of 670 | prostaglandins in 643 | Hyalomma plumbeum auct. (see H. marginatum) |
| review 1782 | seasonal abundance of 2602 | Hyalomma plumbeum impressum (see H. |
| role of mites in 1219 | Hyalomma asiaticum | impressum) |
| howardii, Orchopeas | acaricide resistance in, thresholds of | Hyalomma rufipes (see H. marginatum |
| howardii, Psorophora | 2605 | rutipes) |
| 5-HT (see 1H-Indol-5-ol, 3-(2-aminoethyl)-) | Bhanja virus in, detecting of 1763 | Hyalomma truncatum |
| Hughes virus in | control of, acaricides for 246, 2605 Coxiella burneti in, transmission of 2606 | in South Africa 655 in Zimbabwe 654 |
| Ornithodoros spp. 2966 | enzymes in 1748, 2610 | on cattle |
| O. denmarki, in North America 2974 | lysozyme in, bactericidal activity of 1748 | in South Africa 655 |
| Hughes viruses, phenetic relationships of | salivary glands in 1186 | in Zimbabwe 654 |
| 2974 | Hyalomma detritum | seasonal abundance of 655 |
| Human blood | acaricide resistance in, thresholds of | Hyalomma turanicum (see H. marginatum |
| in Lutzomyia longipalpis diet, suitability for egg production of 2135 | 2605 control of, acaricides for 246, 2605, 3209 | turanicum) Hyaluronidase |
| in Triatomine blood-meals, identifying of | in Israel 3209 | in Amblyomma hebraeum saliva 253 |
| 2081 | trichlorphon resistance in 2593 | in Apis mellifera venom, composition of |
| Human cadavers, Calliphoridae in, in Costa | Hyalomma dromedarii | 1738 |
| Rica 2532 | control of, acaricides for 246 | in Solenopsis invicta venom 1419 |
| Human feces | in India 268 | in Vespula venoms 1423 |
| Aphodiidae in, in Bangladesh 2192 diet component for, Myospila | in Sudan 2573 on Asian buffalo, in Punjab 268 | Hybomitra colour preferences in 3119 |
| meditabunda 2164 | on camel, in Punjab 268 | in New Brunswick 3119 |
| Muscoidea in 1681 | on cattle, in Punjab 268 | in Siberia 601 |
| Sarcophagidae in, in Brazil 2856 | on dog, in Punjab 268 | in USSR 1135 |
| Scarabaeidae in, in Bangladesh 2192 | on goat, in Punjab 268 | weather as affecting 1959 |
| Human hair, diet component for, Dermatophagoides pteronyssinus 271, | on sheep, in Punjab 268 Tettnang virus in, in Sudan 2573 | Hybomitra bimaculata descriptions of 232 |
| 1209 | Hyalomma hussaini | in USSR 232 |
| Human odour | in India 268 | Toxoplasma spp. in, persistence of 2528 |
| Anopheles arabiensis responses to 1905 | on goat, in Punjab 268 | Hybomitra californica |
| Culex quinquefasciatus responses to 1905 | on horse, in Punjab 268 | descriptions of 1711 |
| Glossina morsitans responses to 573 | Hyalomma impressum | in USA 1711 |
| G. pallidipes responses to 573 | Bhanja virus in, in Somalia 247 | Hybomitra erberi |
| humanus, Pediculus humilis, Iridomyrmex | biology of 647 in Somalia 247 | control of, timing of 1152 development of 1152 |
| humilis, Polistes | Hyalomma kumari | in USSR 1152 |
| humilis, Tabanus | in India 48, 268, 1436 | Hybomitra jersey, ovarian development in |
| Hungary | on cattle, in Punjab 268 | 1417 |
| Acari in, on small mammals 1745 | on dog, in Punjab 268 | Hybomitra lundbecki, Toxoplasma spp. in, |
| Aedes rossicus in 1568 Dermacentor marginatus in, rickettsiae in | on goat, in Punjab 268 on sheep, in Punjab 268 | persistence of 2528 Hybomitra montana |
| 1439 | Hyalomma lusitanicum | autogeny in 2157 |
| D. reticulatus in, rickettsiae in 1439 | in Spain 1494 | in France 2157 |
| Heteroptera in | seasonal abundance of 1494 | Hybomitra montana morgani |
| in birds' nests 1543 | Hyalomma marginatum | biology of 2168 |
| in mammal nests 1543 | Congo virus in | in USSR 2168 |
| Hunterellus, parasitising, Amblyomma nuttalli, in Ivory Coast 1989 | in USSR 2902 transmission of 256 | on livestock, in Maritime Territory 2168 Hybomitra pechumani |
| Hunterellus hookeri | control of, acaricides for 246 | sp. nov., description of 222 |
| parasitising | Coxiella burneti in, transmission of 2571 | enzymes in 223 |
| Haemaphysalis leachii 474 | descriptions of 2900 | flight activity in 222 |
| Rhipicephalus sanguineus 474 | Erysipelothrix insidiosa in, loss of | in Canada 222 |
| hussaini, Hyalomma | virulence of 3196 | in USA 222 |

antibodies to 2475

Hybomitra pechumani contd. Hypersensitivity, delayed contd. Hydrotaea australis contd. taxonomy of, characters distinguishing H. typhus and 222, 223 in cattle dung, in Australia 1681 to Culicoides, in horse 357 Hydrotaea dentipes, in cattle dung, to Ornithodoros moubata, in Meriones intraspecific competition in 1695

Hydrotaea houghi 217 unguiculatus 1749 Hybomitra phaenops to Sarcoptes scabiei, in man 281 in USA to wasp sting, in man 242 taxonomy of, characters distinguishing H. Hydrotaea irritans biology of 1414, 1689 Hypersensitivity, immediate sonomensis and 1711 to Culicoides, in horse 357
to Grylloidea, in man 2896 egg maturation in, effects of diet on 377 Hybomitra sexfasciata, control of, egg maturation in, effects of different differences of 2956 in Netherlands 2503 in Norway 3174 in UK 582, 1414, 1689, 2853 in dung, in Netherlands 2503 in pasture soils in England 1414 insecticides for 1676 Hybomitra sonomensis descriptions of 1711 in USA 1711 to Ixodes ricinus, in rabbit 1751 to Lepidoglyphus destructor, in man 2634 taxonomy of, characters distinguishing H. phaenops and 1711

Hybomitra stenopselapha descriptions of 232 in USSR 232 to Ornithodoros moubata, in Meriones unguiculatus 1749 to Sarcoptes scabiei, in man 281 in Scotland 1414 life-span in, effects of diet on 377 mating in, dependence on blood-feeding of Hybomitra tarandinoides to Stomoxys calcitrans, in horse 357 to Tyrophagus putrescentiae, in man 2634 descriptions of 232 in USSR 232 Hybomitra typhus on cattle on cattle
in England 1689
in UK 2853
on Cervus elaphus, defence mechanisms
against 3174
parasites of, in England 1689
population density in 582
predators of, in England 1689
prey of 1689
indextage methorics to wasp sting, in man 242 Hypersensitivity, respiratory (see Respiratory hypersensitivity) descriptions of 222 enzymes in 223 flight activity in 222
in Canada 222
taxonomy of, characters distinguishing H.
pechumani and 222, 223
Hybopygia varia, in Brazil 2856 Hypertension in cat, caused by Buthus occitanus venom 3237 in guinea-pig, caused by Buthus occitanus venom 3237 in rat, caused by Buthus occitanus venom 3237 Hydrotaea meteorica descriptions of 3162 in Japan 3162 in cattle dung, in Japan 3162 Hvdra preying on

Culex pipiens 339

Culicidae 2126 Hypocalcemia in horse, caused by Epicauta 402 Hydrachnellae, in Norway 2205

Hydrellia, Stigmatomyces hydrelliae in, in
Italy 1960 Hydroxylase, tryptophan (see Oxygenase, tryptophan 5-mono-) in rabbit, caused by Buthus occitanus venom 3237 p-Hydroxymercuribenzoate (see Mercury, Hypocera mordellaria p-Hydroxymercuribenzoate (see Mercury, (4-carboxyphenyl)hydroxy-)
Hylomys suillus, Haemolaelaps chersonesi on, in West Malaysia 2715
Hylopetes nigripes, Echinonyssus umbonatus on, in Philippines 2235
Hylopetes spadiceus, Haemolaelaps rohaniae on, in West Malaysia 2715 Hydrocarbons food preferences in 1400 in USSR 1400 in Anopheles gambiae cuticle 1336 in Anopheles gambiae cuticle 1336 Hydrolase, in Musca domestica, role in trichlorphon resistance of 882 seasonal abundance of 1400 **Hypocide** (see Trichlorphon) Hypoderma Hydrometra, insect growth regulators in, residues of 800
Hydromya dorsalis
in Irish Republic 2293 control of growth regulators for 865 insecticides for 433, 575, 861, 2512, Hymenolepis diminuta, in, Tribolium confusum, infectivity of 637 2838 preying on, *Lymnaea truncatula*, in Irish Republic 2293 Hymenoptera book 2994 legislation for 2512 timing of 2838 glycogen in, reserves of 2536 pheromones in, complexity of 32, 33 **Hyperkalemia**, in rabbit, caused by *Buthus occitanus* venom 3237 Hydrophilidae on cattle on cattle
bacteria associated with, effects of insect
growth regulators on 865
in England 2838
in Spain 1491, 1492
in West Germany 861
losses caused by 2512
on man, affecting eyes 1241
preced on by in dung, communities of 3183 traps for 1813 Hydrophilus triangularis
in USA 100, 2804
pesticides in, toxicity of 1854 Hypersensitivity to Apis mellifera, in man 401, 2534, 3182, 3185 preying on Aedes melanimon, in California 100 Chironomidae, in California 100, 2804 Crustacea, in California 100 to Apis mellifera venom in man 634, 2198, 3184 diagnosis of 2201 fowl, in Italy 575 turkeys, in Italy 575 Culex tarsalis, in California 100 **Hydroprene** (ethyl (2E,4E)-3,7,11-trimethylturkeys, in Italy 575

Hypoderma bovis
control of 2044
insecticides for 577, 863, 1123, 1125, 1936, 3140
timing of 1123, 1125
in Czechoslovakia 863
in Mongolia 2044
in Poland 1936
in UK 577
in USSR 1123, 1125, 3140
life-cycle of 575
on cattle to arthropod parasites of pets, in man to arthropods, in man 1506 to Blatta orientalis, in man 460 to Blattella germanica, in man 460 2,4-dodecadienoate) against Aedes communis, in man-made lakes 3097 to Culicidae bibliography 820 in man 546 to Culicoides belkini, in man 1097 A. punctor, in man-made lakes 3097 Musca domestica 1683 in Diploptera punctata, effects of 1267 in Haemaphysalis concinna, effects of to Dermacentor variabilis, in rabbit 1433 1178 to Dermanyssus gallinae, in man 3211 to Dermatophagoides farinae in man 2633 in rabbit 285 in Ixodes ricinus, effects of 1178 in Musca domestica effects of 2511 on cattle antibodies to 2475 assessing infestations of 1125 detecting of 1125 effects of 575 to Dermatophagoides pteronyssinus in guinea-pig 285 effects on ovaries of 2845 Hydropsyche in guinea-pig in man 423 in rabbit 285 bioenergetics of 1930 in Dagestan 1123 in streams, effects on organic transport of to Haematopinus suis, in pig 3018 to Hemiptera, in man 1011 in Mongolia 2044 in Northern Ireland Hydropsyche pellucidula
in UK 1114
insecticides in, toxicity of 1114
not preying on Simulium 1114 in Poland 1936 in USSR 3140 to Hymenoptera, in man, diagnosis of 2035 to Hymenoptera stings in man 241, 2541 treatment of 2543 not affecting milk 863 seasonal abundance of 1936 Hydropsychidae, preying on, Simuliidae, in Brazil 1373 Hypoderma diana
in Irish Republic 1679
on Cervus elaphus, in Irish Republic 1679 Hydroquinone (see 1,4-Benzenediol)

Hydrotaea, in prehistoric graves, in New Brunswick 217

Hydrotaea albipuncta
descriptions of 3162
in Japan 3162
in cattle dung in Lance 2162 treatment of 2543
to Periplaneta americana, in man 2327 |
to Sclerodermus domesticus, in man 969
to Simuliidae, in man 969
to Siphonaptera, in man 1544
to stinging insects, in man 1965
to Trixacarus caviae, in man 1799
to Vespula, in man 401
to Vespula venom, in man, diagnosis of 2201 Hypoderma lineatum control of 2044 insecticides for 577, 2479 in cattle dung, in Japan 3162 preying on, Diptera, in Japan 3162 in Mongolia 2044 in UK 577 in USA 2479 Hydrotaea australis
biology of 1681
distribution of 1681
in Australia 1681 to Vespula vulgaris venom, in man 2198 Hypersensitivity, delayed life-cycle of 575 on cattle

to Ceratopogonidae, in man 969

| Hypoderma lineatum contd. | Immunization contd. | India contd. |
|---|---|---|
| on cattle <i>contd</i> . | of rabbit, against Amblyomma maculatum | mites in |
| effects of 575 | 3205 | in house dust 2927 |
| in Mongolia 2044 | Immunodiffusion (see Gel diffusion tests) | on domestic animals 2646 |
| in Northern Ireland 577 | Immunosuppressive agents, in man, | mosquito control in 2774 |
| in South Dakota 2479 | associated with Norwegian scabies 3213 | Neotrombicula guptai in, on rodents |
| Hypodermacide (see Trichlorphon) | Immunotherapy, for treating hypersensitivity | 2231 |
| Hypodermatidae | to Apis mellifera stings 634 | Nosomma monstrosum in, on Asian |
| feeding behaviour in 610 | implicatus, Aedes | buffalo 646 |
| hosts of 610 | impressum, Hyalomma | Numidilipeurus lawrensis in, on fowl |
| on game, book 2261 | impudicus, Culex | 1531 |
| on mammals, in Poland 2473 | impuncta, Helina | Oribatei in 1797 |
| Hypodermin-chlorophos (see Trichlorphon) Hypolimnas bolina | incertulas, Scirpophaga (Tryporyza) | Ornithodoros coniceps in 1431 |
| in Japan 710 | incertulas, Tryporyza (see Scirpophaga incertulas) | Pediculus capitis in, on man 419 Periplaneta americana in 2322 |
| on man, effects of 710 | incertus, Copris | natural enemies of 2050 |
| Hypopygiopsis, taxonomy of 1143 | incidens, Culiseta | Phlebotominae in 2815, 2816 |
| Hypotension, in dog, caused by Buthus | inconspicua, Symphoromyia | Phlebotomus spp. in, natural enemies of |
| tamulus venom 3236 | indages, Ceratophyllus | 2816 |
| hypudaei, Dermacarus | 1H-Indene-1,3(2H)-dione, 2-(diphenylacetyl)- | P. argentipes in 183 |
| hyrcanus, Anopheles | (see Diphenadione) | P. papatasi in 183 |
| Hystrichopsylla, in western Mediterranean basin 2084 | 1H-Indene-1,3(2H)-dione, 2-[(4- | Porcellio laevis in, in cattle dung 2663 |
| Hystrichopsylla occidentalis linsdalei, | methylphenyl)phenylacetyl]-, in Xenopsylla cheopis, inhibiting blockage | Rhipicephalus haemaphysaloides in, on Elephas 2898 |
| taxonomy of 1282 | formation by Yersinia pestis 1030 | Sarcoptes scabiei in, on man 419, 671 |
| Hystrichopsylla occidentalis occidentalis, | 1H-Inden-4-ol, 2,3-dihydro-1,1-dimethyl-, | Trombiculidae in, on small mammals |
| taxonomy of 1282 | methylcarbamate, against, Culicidae | 929, 930 |
| Hystrichopsylla occidentalis sylvaticus, ssp. | 1582 | veterinary entomology in 2017 |
| nov., description of 1282 | India | |
| Hystrichopsylla orientalis, distribution of | Aedes aegypti in 1909 | ¥ 11 |
| 2084 Hystrichopsylla talpae | in dwellings 1069 | Indiana |
| air resistance of 731 | Ancistropsylla nepalensis in, on Cervus 3025 | Aedes atropalpus in 1044 A. triseriatus in 80 |
| distribution of 2084 | Anopheles spp. in 149, 1627 | A. vexans in 1615 |
| in UK 1286 | on man 3100 | Blattella germanica in, in dwellings 1265 |
| in Bombus lucorum nests, in England | A. annularis in, natural enemies of 3102 | Carnivora in, arthropod parasites of |
| 1286 | A. culicifacies in 1297, 1908, 2364 | 1256 |
| taxonomy of 2084 | on man 1912 | Ctenocephalides felis in, in dwellings |
| Hystrix leucura, Pariodontis riggenbachi on, | A. philippinensis in 3101 | 1265 |
| in China 2343 | A. ramsayi in 1924 | Culex salinarius in 1615 |
| Iceland, Vespidae in 2537 | A. stephensi in 540, 1297, 1909, 2364, | Dermacentor variabilis in 258 |
| Ichneumonoidea, book 2994 Ichoronyssus scutatus | 2775, 2776, 2777 natural enemies of 2770 | domestic animals in, arthropod pests of 1259 |
| in Poland 935 | A. subpictus in 2775 | Gasterophilus haemorrhoidalis in, on |
| on bat, in Poland 935 | A. varuna in 1297 | horse 1680 |
| Idaho | Argas persicus in, on fowl 640, 1177 | Mallophaga in, on wild mammals 1527 |
| Dermacentor variabilis in 2558 | arthropods in 453, 454, 455, 1240 | man in, arthropod pests of 1259 |
| Sarcoptes scabiei in, on pig 2248 | Blatta orientalis in 2322 | mosquito control in 805 |
| Vespula acadica in, natural enemies of | Blattaria in, natural enemies of 1268 | Synaptomys cooperi in, arthropod |
| 631 | Blattella germanica in, in insect-rearing | parasites of 1424 |
| idottus, Culex | laboratories 3004 Boophilus microplus in | Tamias striatus in, arthropod parasites of 1800 |
| IgE (see Globulins, immune, E) IgG (see Globulins, immune, G) | on Asian buffalo 1203 | Tamiasciurus hudsonicus in, arthropod |
| igneus, Phanaeus | on cattle 1203 | parasites of 1800 |
| Ilesha virus, in, Aedes albopictus, replication | Cheyletiella spp. in, on dog 1455 | indiana, Mansonia |
| of 2760 | Chrysomya bezziana in, on man 884 | indica, Ascoschoengastia |
| Ilheus virus | C. rufifacies in 2158 | indica, Sergentomyia squamipleuris |
| in | Culex spp. in, on man 2773 | indicus, Aethus |
| Aedes aegypti, not pathogenic 2438 | C. edwardsi in 1635 | indistinctus, Culicoides |
| A. albopictus, pathogenicity of 2438 birds, in French Guiana 2438 | C. gelidus in 2771 C. halifaxii in 547 | Indo-Australian region, Stylogaster spp. in 595 |
| man, in French Guiana 2438 | C. quinquefasciatus in 1909, 2383, 2695 | 1H-Indole-3-acetic acid, 5-hydroxy-, in |
| Illinois | in drains 1306 | Periplaneta americana, accumulating |
| Anopheles punctipennis in 806 | natural enemies of 2772 | after inhibition of serotonin synthesis |
| Blattella germanica in, in dwellings 1265 | Culicinae in, natural enemies of 2769 | 2053 |
| Culex pipiens in 146 | Culicoides orientalis in 3108 | 1H-Indole-3-ethanamine, 5-methoxy-, in |
| C. restuans in 146 | Demodex canis in, on dog 2008, 2246 | Atrax robustus female venom 2660 1H-Indole |
| illucors Hermetic | D. caprae in, on goat 1206, 3220 | attractant for |
| illucens, Hermetia illustris, Lucilia | D. folliculorum in, on man 3224 Dermacentor auratus in, viruses in 265 | Musca domestica 208 |
| imicola, Culicoides | Diptera in, on man 885 | Muscina stabulans 208 |
| 1H-Imidazole-4-ethanamine | Haemaphysalis spp. in, viruses in 265 | coattractant for, Hippelates spp. 208 |
| in cattle, causing detachment of Boophilus | Haematobia irritans in, on Asian buffalo | in fly attractants 2876 |
| microplus 3202 | 1937 | 1H-Indol-5-ol, 3-(2-aminoethyl)- (5HT; 5- |
| in Euproctis flava urticating hairs 1736 | Haematomyzus elephantis in, on Elephas | hydroxytryptamine; serotonin) |
| in guinea-pig mast cells, released by Apis | 2898 | in Callinham vising colivery alondo sale |
| mellifera venom 2539 2-Imidazolidinone, 1,3-dihexyl-, repellent | Haematopinus tuberculatus in, on Asian buffalo 1010 | in Calliphora vicina salivary glands, role in salivation of 1139, 1140 |
| for, Aedes aegypti 2742 | Hyalomma anatolicum in | in cattle, not causing detachment of |
| Immune sera | on Asian buffalo 2602 | Boophilus microplus 3202 |
| to Ixodes ricinus, in rabbit 1751 | on cattle 2602 | in invertebrates, book 1504 |
| to scorpion venoms, production of 2932 | Ixodidae in 48, 1204, 1436 | in Musca domestica, not affecting |
| Immunity, in invertebrates, review 2306 | on domestic animals 268 | secretion by Malpighian tubules 3178 |
| Immunization | Lipeurus caponis in, on fowl 2333 | in Periplaneta americana nervous system |
| of cattle | Liponyssoides bengalensis in, on man 1796 | 2053 in rat brain, effects of Anis mellifera |
| against Dermacentor andersoni 1180 against Theileria annulata 2617, 3198 | malaria control in 1627 | in rat brain, effects of Apis mellifera venom on 1422 |
| of guinea-pig, against Dermacentor | Mansonia annulifera in, in cattle sheds | in <i>Rhodnius prolixus</i> , stimulating |
| andersoni 1180 | 2432 | potassium uptake in Malpighian |
| of Macaca mulatta, against Plasmodium | medical entomology in 2038 | tubules 763 |
| knowlesi 824 | Menacanthus stramineus in, on fowl | Indonesia |
| of mouse, against <i>Plasmodium yoelii</i> | 1532, 2333 | Aedes aegypti in 1084, 1294 |
| 1592 | Menopon gallinae in, on fowl 1532 | A. albopictus in 1084, 1294 |

```
Indonesia contd.
                                                                                           Insecticides contd.
                                                                                                                                                                                      Insects contd.
    Anopheles aconitus in 530, 532, 1583, 1586, 1892, 1923
                                                                                               substances tested as: contd.
                                                                                                                                                                                          tissue cultures from, review 2299
                                                                                                   dialkyl 2-bromo-1-(2.4-
                                                                                                                                                                                          vitellogenins in, review 997
   A. barbirostris in 1638
A. subpictus in 1587
A. sundaicus in 1587
                                                                                                          dichlorophenyl)ethenyl phosphates
                                                                                                                                                                                          water balance in, review 1503
                                                                                                                                                                                          wing-beat frequency of, measuring of
                                                                                                          2938
                                                                                                   3,4-diphenyl-1-phenylcarbamoyl-2-
pyrazolines 295
                                                                                                                                                                                                 777
                                                                                                                                                                                      Insects as food, Musca domestica larvae as
     applied entomology in
                                                                                                                                                                                            constituent of poultry feed 3173
    Culicidae in 2090
                                                                                                    O-(1,5-disubstituted-6-oxo-1H-pyridazin-
     Culicoides maculatus in 3108
                                                                                                          4-yl) phosphorothioates 426
                                                                                                                                                                                      insignis, Culicoides
    Echinonyssus harpagonis in, on
Callosciurus 2235
                                                                                                   Entomophthora virulenta secondary metabolites 1470
                                                                                                                                                                                      insignis, Myodopsylla
                                                                                                                                                                                      Insulin, in Calliphora vomitoria median neurosecretory cells, localisation of
                                                                                                   metabolites 1470
Fusarium larvarum secondary
metabolites 604
garlic extracts 2384
indanyl chrysanthemates 430, 431
Lithospermum arvense extracts 1603
     Gahrliepia doratanae in, on Rattus 2231
Ganruepia doratanae in, on Rattus mosquito control in 2425 inermis, Gasterophilus inermis, Haemaphysalis Infectious diseases (see Communicable diseases) infestans, Triatoma infirmatus, Aedes
                                                                                                                                                                                      integella, Rhadinopsylla
                                                                                                                                                                                      integra, Stylidia
Integrated control
                                                                                                    morindin 432
                                                                                                                                                                                          of arthropods
Culicidae 2389, 2390, 2391, 2393
funding of 2392
                                                                                                   mucilaginous seeds 2120
non-ionic surfactants 19
Inflammation
                                                                                                    organophosphates 1461
                                                                                                                                                                                              pests of domestic animals 2296
    in guinea-pig, caused by Trixacarus caviae
                                                                                                    overcrowding-factor analogues 1855,
                                                                                                                                                                                      intermedia, Haemaphysalis
                                                                                                          1856
                                                                                                                                                                                      intermedius, Euoniticellus
                                                                                                                         1805
    in mouse, caused by Polyplax serrata
                                                                                                    parthenin
                                                                                                   parthenin 1805
2-perfluoroalkylbenzimidazoles 3245
phenothrin analogues 1468
1-phenylcarbamoyl-2-pyrazolines 1227
phytobacteriomycin 2388
picrotoxinin analogues 427
Pimpinella anisum extracts 2668
                                                                                                                                                                                      intermedius, Malayoglyphus
           1534
    in pig, caused by Haematopinus suis 3018
                                                                                                                                                                                      interruptofasciatus, Neotrichodectes
                                                                                                                                                                                      intestinalis, Gasterophilus
intrincatus, Culex
ingrami, Aedes
ingricus, Myonyssus
Inokosterone (see Cholest-7-en-6-one,
2,3,14,20,22,26-hexahydroxy-,
(2\beta,3\beta,5\beta,22R)-)
                                                                                                                                                                                      intrudens, Aedes
Invertase (see Fructofuranosidase, \beta-)
                                                                                                   plant extracts 1341
pyrethroids 699
                                                                                                                                                                                      Invertebrates, neuropharmacology of, book
                                                                                                                                                                                             1504
                                                                                                                                                                                     1504
invicta, Solenopsis
inzi, Sarcophaga
Iodofenphos (O-(2,5-dichloro-4-iodophenyl)
O,O-dimethyl phosphorothioate)
                                                                                               streptothricins 2388
synonyms of 954
tests of 732, 733, 734
inornata, Culiseta
inornata, Culiseta
Inosine, in Culex pipiens diet, able to replace adenylic acid 133
5'-Inosinic acid, in Culex pipiens diet, able to replace adenylic acid 133
myo-Inositol, in Anopheles stephensi hemolymph 1049
Insect collections, abbreviations for institutions containing 1260
Insect growth regulators
                                                                                               use of
                                                                                                   in Italy 970
trends in 451
                                                                                                                                                                                          against
                                                                                                                                                                                              Blattella germanica, in restaurants 749
Culex pipiens 2743
Musca domestica, in cattle sheds 2515
                                                                                           Insectivora
                                                                                                Acari on
                                                                                                   in Hungary 1745
in Poland 1497, 1498
                                                                                                                                                                                          in cattle sheds, persistence of 2515 in roadside drains, persistence of 2743
Insect growth regulators
fluorescent 1649
                                                                                                Anoplura on, in Poland 1498
                                                                                                                                                                                      ioffi, Catallagia
    in Drosophila mercatorum, development
                                                                                                Ixodes ovatus on, in Nepal 1993
                                                                                                                                                                                       iolambdis, Culex
   in Drosophila mercatorum, development of resistance to 2270 in insects, degradation of 1502 in mouse cell lines, toxicity of 2033 in Rhodnius prolixus, overcoming ecdysone inhibition of oogenesis 760 insect control using 467 screening of 1267 substances tested as:
                                                                                               Siphonaptera on, in Poland 1498
                                                                                                                                                                                      Iowa
                                                                                                                                                                                      Culex spp. in, viruses in 137

Gasterophilus nasalis in, on horse 1680

Pediculus capitis in, on man 1535

IPO-62 (see Bromfenvinfos)

IPO-63 (see Phosphoric acid, 2-bromo-1-(2,4-dichlorophenyl)ethenyl dimethyl
                                                                                               activity in, monitoring of 6
                                                                                               aquatic
                                                                                               in North America 78
traps for 5, 438
as pests and disease vectors, review
body temperature in, measuring of
chemoreceptors in 2991
                                                                                                                                                                                             ester)
         alkylcarbamate derivatives of geranyl phenyl ethers 1393
                                                                                                                                                                                      Ipomoea, insect growth regulator activity of extracts of 1341
Iproniazid (2'-(1-methylethyl)-4-
                                                                                               chemosensilla in, review 2298
         3-(aryloxymethylene)phthalimidines
                                                                                               colonisation and establishment by, genetics of 2270
                                                                                                                                                                                            pyridinecarbohydrazide)
2,6-di-tert-butylphenols 956
farnesoic acid derivatives 1231
juvenile-hormone analogues 705
plant extracts 1341
synonyms of 954
Insect-rearing laboratories
Blattella germanica in, in India 3004
cockroach control in, baits for 3004
Insecticide resistance 428
development of models of 425
                                                                                                                                                                                          in Musca domestica diet, effects on
pupation of 622
                                                                                               cuticle in
                                                                                                   hardening and coloration of, review 2693
                                                                                                                                                                                      Iran
                                                                                                    mechanism of tanning of 871
                                                                                                                                                                                          Anopheles stephensi in 2364
                                                                                                                                                                                          in dwellings 1289

Argas vulgaris in, viruses in 2903
                                                                                               development in, hormonal regulation of
                                                                                                                                                                                          mites in, in house dust 1205
Scorpiones in 2932
                                                                                                filter-feeding in, review 2300
                                                                                               genitalia of, preserving in vials of 2048 heartbeat in, regulation of 2844 identifying of, techniques for 436 in North America, book 2996 isopentenoid dependence of 1474
                                                                                                                                                                                          Simuliidae in 855
    development of, models of 425 in Culicidae 1505
                                                                                                                                                                                      Iraq
                                                                                                                                                                                          Anopheles spp. in 2757
Cimicidae in 2711
Dermanyssus gallinae in, on man 3211
mosquito control in 2757
Oestrus ovis in, on man 2472
Phlebotominae in 3110
Insecticides
book 2032
                                                                                               jumping of, effects of air resistance on 731
    in animal products, effects on food value of 1472
                                                                                               lipids in, digestion and absorption of,
review 1815
male accessory glands in, role in
reproduction of 40
    in game, poisoning by 2261
in game animals, toxicity of 305
in plant products, effects on food value of
                                                                                                                                                                                          Phlebotomus papatasi in, flagellates in
                                                                                                metabolism in, hormonal regulation of
           1472
                                                                                                                                                                                      Iridomyrmex humilis
   neurotoxicology of, conference 476
of vegetable origin, bibliography 2939,
2940, 2941
repellency of, detecting of 1004
sales of, in Finland 3243
screening of 1471
solvents for, toxicity to insects of 303
substances tested as:

Achilles millefolium extracts 2790
                                                                                                                                                                                          Aedes sierrensis eggs not eaten by 1885
                                                                                               moulting physiology in, review 997
muscle fibres in, review 997
neural development in, review 997
                                                                                                                                                                                          control of 38
                                                                                                                                                                                      in Australia 38
in USA 1885

Iridomyrmex pruinosus, alarm pheromone
in, optical activity of 31

Iridoviridae
                                                                                               neurophysiological techniques with, book 2258
                                                                                               outbreaks of 471
                                                                                               pathogens of, diagnostic manual 2031
                                                                                                                                                                                              Aedes aegypti, interactions with X-rays of 2112
         Achillea millefolium extracts 2790
                                                                                               pheromones in
        algal extracts 522
alkanamides 1855
                                                                                                   commercial production of 36 optical activity of 31
                                                                                                                                                                                               A. caspius, in Ukraine 2102
         alkoxycyclopropanecarboxylates 2937
O-aryl O-alkyl S-alkyl
                                                                                                                                                                                              A. taeniorhynchus, vertical transmission
                                                                                               review 30
population dynamics of, role of dispersal
and migration in 1244
population structure in, use of genetics in
studying 2276
radiation techniques with 22
spermatogenesis regulation in, review
2302
                                                                                                                                                                                                    of, males not involved in 1622
        O-aryl O-arkyl 3-arkyl
phosphorothioates 1462
aryl isothiocyanates 3061
avermectins 18, 862, 2175
benzospiro pyrethroids 1467
cyclic phosphoramidothionates
DDT-pyrethroids 1469
                                                                                                                                                                                      iriei, Acanthophthirius
                                                                                                                                                                                      Irish Republic
                                                                                                                                                                                          Cephenemyia auribarbis in, on Cervus
1679
                                                                                                                                                                                           Damalinia bovis in, on cattle 3015
                                                                    1463
                                                                                                      2302
                                                                                                                                                                                          Fanniidae in 902
```

| Irish Republic contd. | Italy contd. | Ixodes dammini contd. |
|--|--|--|
| Geotrupes stercorarius in, in cattle dung | Phlebotominae in 835 | on Peromyscus leucopus, in Massachuse |
| 1696 | viruses in 2967 | 250, 2003, 2575 |
| Haematobia irritans in, on sheep 3172 Hypoderma spp. in, on cattle 2512 | Phlebotomus spp. in 2142 Sarcoptes scabiei in, on man 281 | seasonal abundance of 2003 Ixodes dentatus |
| H. diana in, on Cervus 1679 | Scaptomyza spp. in, natural enemies of | in USA 2282 |
| Linognathus vituli in, on cattle 3015 | 1960 | on Sylvilagus floridanus, in Virginia |
| Lymnaea truncatula in, natural enemies of | Supella longipalpa in | 2282 |
| 2293 Muscidae in 902 | in dwellings 2331 in foodstuffs 479 | Ixodes hexagonus artificial feeding of 2228 |
| Sepsidae in 2184 | vector control in 973 | taxonomy of |
| Iron, radioactive (59Fe), Xenopsylla cheopis | Itching (see Pruritus) | characters distinguishing I. canisuga |
| labelled with 2341 Iron sorbitex, in rabbit, effects on Glossina | Ivory Coast | and 1195 characters distinguishing <i>I. rugicollis</i> |
| palpalis of 2835 | Aedes spp. in 1080 A. africanus in, viruses in 3080 | and 1195 |
| Irrigation, Culicidae as affected by 518 | Amblyomma nuttalli in, natural enemies | Ixodes holocyclus |
| irritans, Haematobia (Lyperosia) irritans, Hydrotaea | of 1989 | biology of 2618 hosts of 2618 |
| irritans, Lyperosia (see Haematobia irritans) | Armillifer grandis in, on man 2664 | in Australia 1506, 2618 |
| irritans, Pulex isaaci, Hyalomma marginatum | Glossina spp. in 1380, 2832, 2833 in sugar-cane plantations 201 | on <i>Isoodon macrourus</i> , in Queensland 2618 |
| isabellinus, Hirstionyssus | G. nigrofusca in 1120 | on man, hypersensitivity to 1506 |
| Ischnopsyllus transcaucasicus | G. pallicera in 1120 | paralysis caused by, mechanism of 221 |
| sp. nov., description of 2719 in USSR 2719 | G. palpalis in 200, 571, 572, 1118, 1119, 2826, 2827 | seasonal abundance of 2618 toxins of 1976 |
| on Plecotus auritus, in Georgia (USSR) | natural enemies of 1669 | Ixodes kohlsi |
| 2719 | on man 1669 | Haller's organ in 2584 |
| Isobutyric acid (see Propanoic acid, 2-methyl-) | G. tachinoides in 2837 onchocerciasis control in 1109, 1110 | taxonomy of 2584 Ixodes laysanensis |
| 1 <i>H</i> -Isoindole-1,3(2 <i>H</i>)-dione, 3a,4,7,7a- | Rhipicephalus sanguineus in, on dog | Haller's organ in 2584 |
| tetrahydro-2-[(trichloromethyl)thio]- (see | 2614 | taxonomy of 2584 |
| Captan) 1H-Isoindol-1-one, 3-[(4- | Simulidae in 366 Simulium spp. in 2143, 2818 | Ixodes lividus in East Germany 649 |
| chlorophenoxy)methylene]-2,3-dihydro-, | nematodes in 2453 | in USSR 916 |
| against, Culex pipiens 338 | yellow fever in 3080 | in West Germany 1753 |
| L-Isoleucine, diet component for, Xenopsylla spp. 1281 | Ixodes, Rickettsia spp. in, transmission of 2574 | in Riparia riparia nests, in Karelia 916 on Riparia riparia |
| Isomerase, triose phosphate, isoenzymes, in | Ixodes acutitarsus | in East Germany 649 |
| Hybomitra, use in taxonomy of 223 | in Nepal 1993 | in West Germany 1753 |
| Isomermis benevolus sp. nov., description of 2822 | on man, in Nepal 1993 on sheep, in Nepal 1993 | overwintering in 916 Ixodes muris |
| in, Simulium metallicum, in Guatemala | on small mammals, in Nepal 1993 | development in 1769 |
| Jeometrus aurangous (see I magulatus) | in USSR 1744 | in USA 2575 Ixodes ovatus |
| Isometrus europaeus (see I. maculatus) Isometrus maculatus, in Japan 721 | on Apodemus agrarius, in Soviet Far East | in Nepal 1993 |
| Isoodon macrourus | 1744 | on man, in Nepal 1993 |
| Haemaphysalis doenitzi on, not feeding | on Zapus, in North America 1447 Ixodes arboricola | on small mammals, in Nepal 1993 Ixodes pavlovskyi |
| Ixodes holocyclus on, in Queensland | in West Germany 1753 | in USSR 1434 |
| 2618 | on birds, in West Germany 1753 | on Erinaceus europaeus, in Soviet Far |
| Isopentenoids, dependence of insects on 1474 | Ixodes auritulus Haller's organ in 2584 | East 1434 Ixodes percavatus |
| Isoptera, control of, insecticides for 451 | taxonomy of 2584 | Haller's organ in 2584 |
| Isovaleric acid (see Butanoic acid, 3-methyl-) | Ixodes canisuga taxonomy of | taxonomy of 2584 Ixodes persulcatus |
| Isoxathion (see Phosphorothioic acid, O,O- | characters distinguishing I. hexagonus | biology of 2611 |
| diethyl O-(5-phenyl-3-isoxazolyl) ester) | and 1195 | Coxiella burneti in, transmission of 260 |
| Israel blood-sucking arthropods in 2992 | characters distinguishing <i>I. rugicollis</i> and 1195 | in USSR 9, 641, 1434, 1744, 1754, 204 2586, 2611, 2963 |
| Hyalomma spp. in, on livestock 3209 | Ixodes cavipalpus | insemination rate in, seasonal changes in |
| Ornithodoros coniceps in 1431 | in South Africa 655 | 641 |
| Phlebotomus papatasi in, flagellates in 558 | in Zimbabwe 654 on cattle | occurrence-environment maps for 1754 on Apodemus agrarius, in Soviet Far Ea |
| Phoridae in, natural enemies of 400 | in South Africa 655 | 1744 |
| Sciaridae in, natural enemies of 400 Israel turkey encephalitis (see Encephalitis, | in Zimbabwe 654 seasonal abundance of 655 | on boar, in Maritime Territory 2586 on <i>Clethrionomys glareolus</i> , effects of |
| Israel turkey) | Ixodes cookei | 2609 |
| Issyk-Kul virus, in, Aedes caspius, | in USA 1256 | on Erinaceus europaeus, in Soviet Far |
| transmission of 1559 Italy | on Mephitis mephitis, in Indiana 1256 on mink, in Indiana 1256 | East 1434 on <i>Microtus subarvalis</i> , effects of 2609 |
| canine leishmaniasis in 835 | on Procyon lotor, in Indiana 1256 | on Sorex, in Maritime Territory 2040 |
| Culicidae in on man 971 | on Taxidea taxus, in Indiana 1256 | population age composition in 2611 |
| viruses in 2967 | on Urocyon cinereoargenteus, in Indiana 1256 | salivary glands in 1186 seasonal abundance of 9 |
| Hydrellia spp. in, natural enemies of | on Vulpes vulpes, in Indiana 1256 | Sikhote-Alin virus in, in Maritime |
| 1960 Hypoderma spp. in, on cattle 575 | Ixodes dammini Babesia microti in, transmission of 250, | Territory 2586 tick-borne encephalitis |
| Hystrichopsylla spp. in 2084 | 2003, 2575, 2629, 3191 | virus in |
| insect fauna of, literature on 987 | control of 250 | changes in 2979 |
| insecticide use in 970 Ixodes ricinus in, viruses in 263 | development in 1769 hosts of 2003 | trans-stadial transmission of 2607, 2910 |
| Ixodoidea in 2613 | in USA 250, 1998, 2003, 2575, 2629, | transovarial transmission of 2607, |
| viruses in 2967 | 3191 Lyma arthritic causal agent in | 2910 |
| leishmaniasis in 2142 Leptocera spp. in, natural enemies of | Lyme arthritis, causal agent in, transmission of 2629 | Ixodes petauristae, Kyasanur Forest diseas virus in, transmission of 265 |
| 1960 | on deer, in Massachusetts 2575 | Ixodes ricinus |
| man in, arthropod pests of 969 mosquito control in 971 | on man feeding by 250 | Anaplasma spp. in, transmission of 651 artificial feeding of 2228 |
| Musca domestica in | in Massachusetts 2003 | Babesia spp. in, transmission of 412, |
| in cattle sheds 2515, 2516 | on Microtus pennsylvanicus, in | 2210, 2950 Redivergens in transmission of 2625 |
| in pig sties 2516 Ornithodoros coniceps in 1431 | Massachusetts 2575 on Odocoileus virginianus, in | B. divergens in, transmission of 2625 B. microti in, transmission of 3187 |
| pest control in 975 | Massachusetts 1998 | Coxiella burneti in, transmission of 257 |

| 4 | Tundan union contd | Ixodoidea contd. |
|--|--|--|
| wodes ricinus contd. | Ixodes uriae contd. in USSR 2963 | |
| detachment in, rhythm of 918 | | on Talpidae, in USA 1814 |
| Dipetalonema rugosicauda in | on sea birds, in USSR 2963 | on zebu, effects on plasma phospholipids |
| in Switzerland 412 | Ixodes ventalloi | of 1425 |
| in West Germany 2228 | in Spain 1494 | preparing of 917 |
| infectivity of 2228 | seasonal abundance of 1494 | taxonomy of, cryptogram for 1440 |
| distribution of 457 | Ixodidae | toxins of 1257 |
| enzymes in 2214 | arboviruses in, in USSR 2963 | iyengari, Sergentomyia |
| | biology of 727 | iyoensis, Tabanus |
| Eyach virus in, in West Germany 2572, | | |
| 2971 | Borrelia theileri in, transmission of 411 | J-2419 (see Phenol, 2,4-bis(1,1- |
| habitats of 257, 2613 | Chim virus in, in Uzbekistan 1747 | dimethylethyl)-6-(phenylmethyl)-) |
| host-seeking in, effects of weather on | control of 2044 | J-2581 (see 1,3-Benzodioxole, 5-ethoxy-6- |
| 2954 | repellents for 2038 | [(4-methoxyphenyl)methyl]-) |
| hosts of 2218 | without acaricides 2547 | J-2644 (see Phenol, 2,4-bis(1,1- |
| hygienic importance of 457 | Dipetalonema spp. in, transmission of | dimethylethyl)-6-[(4- |
| in Czechoslovakia 257 | 474 | methoxyphenyl)methyl]-) |
| in Italy 263, 2613 | in Afghanistan 2993 | J-2693 (see 1,3-Benzodioxole, 5-[(4- |
| in Norway 249, 2600 | in Assam 48 | methoxyphenyl)methyl]-6-(2-propenyl)-) |
| | | |
| in Switzerland 412, 1776, 2206 | in India 2038 | J-2706 (see Phenol, 2,4-bis(1,1- |
| in UK 2625, 2952 | in Malagasy Republic 2408 | dimethylethyl)-6-(1-phenylethyl)-) |
| in USSR 639, 641, 1187 | in Orissa 1204 | jacumbae, Simulium |
| in West Germany 1753, 2218, 2228, | in Sudan 2007 | Jamaica |
| 2572, 2573, 2971 | in Rhombomys opimus burrows, in | Aedes aegypti in 349 |
| in Yugoslavia 2217 | Uzbekistan 1747 | dengue in 167 |
| insect growth regulators in, effects of | in woodland, sampling of 1750 | jamesii, Anopheles |
| 1178 | occurrence-environment maps for 1754 | jamesoni, Binuncus |
| | on cattle | Jamestown Canyon virus |
| insemination rate in, seasonal changes in | | |
| 641 | in Zimbabwe 1182, 1994 | in Andreas de Commente 1807 |
| louping ill, virus in, infectivity of 3207 | resistance to 2546, 2549 | Aedes abserratus, in Connecticut 1897 |
| microclimate as affecting 2953 | on guinea-pig, resistance to 2546 | A. cantator, in Connecticut 1897 |
| on Apodemus flavicollis, in Byelorussia | on livestock, in Nigeria 2045, 2046 | A. dorsalis, replication of 1578 |
| 639 | on man, in Italy 969 | A. vexans, in Connecticut 1897 |
| on birds, in West Germany 2218 | on mouse-like rodents, in Byelorussia | Coquillettidia perturbans, in |
| on cattle, in Northern Ireland 2625 | 639 | Connecticut 1897 |
| on Clethrionomys glareolus, in Byelorussia | on sheep, in Mongolia 2044 | janthinomys, Haemagogus |
| 639 | Pasteurella tularensis in, in Ukraine | Japan Japan |
| | | |
| on rabbit, immunity to, transfer of 1751 | 2219 | Acanthophthirius spp. in, on bats 2644 |
| on sheep, in Switzerland 1776 | pheromones in, review 1185 | Aedes albopictus in, on man 819 |
| Rickettsiaceae in, in Switzerland 2206 | salivation in, regulation of 1977 | A. riversi in, on man 819 |
| rickettsiae in, in Switzerland 412 | water relations of 1979 | Aethus indicus in 709 |
| seasonal abundance of 2952, 2953 | Ixodides | Amblyomma testudinarium in, on man |
| taxonomy of, characters distinguishing | in Norway 2205 | 2906 |
| Rhipicephalus sanguineus and 2594 | on small mammals, in Poland 1497 | Anopheles minimus in 723 |
| Tettnang virus in, in West Germany | Ixodoidea | A. sinensis in 723, 3071 |
| 2573 | acaricide resistance in 3208 | in rice-fields 1319 |
| | | |
| tick-borne encephalitis | arboviruses in | Anoplura in 708 |
| virus in | in Canada 2964 | Araneae in 721 |
| changes in 2979 | in Italy 2967 | Basilia truncata in, on bat 2531 |
| in Norway 249 | in Norway 2965 | Blattaria in 707 |
| in West Germany 2573 | transmission of 2961 | Blattella germanica in, in restaurants 749 |
| infectivity of 2215 | as pests and disease vectors, review 2295 | Calliphoridae in 717 |
| trans-stadial transmission of 2607 | cleaning of, for SEM 1768 | Calvolia domicola in, in house dust 2636 |
| transmission of 412, 922 | Congo virus in 993 | Cheyletiella blakei in, on cat 2651 |
| transovarial transmission of 2607 | control of 2461, 2462 | Chironomus spp. in 891 |
| | | |
| Toxoplasma gondii in, transmission of | acaricide resistance as affecting 2545 | Chortoglyphus longior in, in house dust |
| 1430 | acaricides for 2550 | 2636 |
| Tribeč virus in | immunological 2546 | Culex molestus in 2434 |
| in Italy 263 | in developing countries 2549 | C. pipiens in 3071, 3074 |
| transmission of 922 | repellents for 463 | in drainage ditches 118 |
| Trypanosoma spp. in, in Switzerland 412 | in Cuba 407 | C. quinquefasciatus in 722 |
| Uukuniemi virus in, transmission of 922 | in Israel 2992 | C. tritaeniorhynchus in 3071, 3073 |
| weather as affecting 2952 | in Italy 2613 | in rice-fields 168, 790, 2433 |
| xodes rothschildi | in Kuwait 1311 | viruses in 724, 3072 |
| Haller's organ in 2584 | in Malagasy Republic 2692 | Culicidae in 713, 2100, 2740 |
| | | on man 546 |
| taxonomy of 2584 | in Nansei Islands 719 | |
| xodes rugicollis | in Nova Scotia 1816 | Culicoides spp. in 715 |
| sclerotised cuticle in 1195 | in Saudi Arabia 2990 | Dolichovespula saxonica in 243 |
| taxonomy of | in South Australia 8 | Eulaelaps spp. in 2582 |
| characters distinguishing I. canisuga | in USA, book 2997 | Eyndhovenia euryalis in, on Rhinolophus |
| and 1195 | male accessory glands in, role in | 282 |
| characters distinguishing I. hexagonus | reproduction of 40 | Gamasidae in, on rodents 2009 |
| and 1195 | on Apodemus agrarius, in Soviet Far East | Haemaphysalis longicornis in 1986 |
| xodes scapularis | 1744 | Haematobia irritans in, on cattle 2840 |
| development in 1769 | on cattle | Hippobosca longipennis in 3163 |
| in USA 251, 260 | effects on blood of 2209 | Hydrotaea albipuncta in, in cattle dung |
| on dog, in Massachusetts 260 | in UK 2278 | 3162 |
| | | |
| on man, in Massachusetts 260 | in Zambia 2461, 2462 | H. meteorica in, in cattle dung 3162 |
| overwintering in 260 | in Zimbabwe 2015 | Hymenoptera in, on man 712 |
| xodes signatus | on domestic animals | Ixodoidea in 719 |
| arboviruses in 2966 | diagnosing of, book 977 | Lepidoptera in, on man 710 |
| in USSR 2963 | in Fiji 1262 | Lipoptena spp. in |
| on cormorant, in USSR 2963 | in Karnataka 2017 | on deer 2858 |
| xodes texanus | on game, book 2261 | on man 2858 |
| in USA 1256 | on man 463 | Macronyssus spp. in, on bats 2637 |
| on Procyon lotor, in Indiana 1256 | book 2279 | malaria in 723 |
| xodes trianguliceps | erythema associated with 2222 | Musca domestica in 788, 1146, 1147, |
| biology of 1435 | in New York 2621 | |
| | | 1941, 2869 |
| in Switzerland 1435 | Lyme arthritis associated with 2619 | in rubbish dumps 2488 |
| on Apodemus sylvaticus, development of | on Odocoileus virginianus, in Texas 1202 | Muscidae in 717 |
| 652 | on poultry, in Karnataka 2017 | on cattle 592 |
| on mouse, resistance to 652 | on sheep, in UK 2278 | Muscoidea in 2177 |
| | | The state of the s |
| xodes uriae arboviruses in 2966 | on small mammals, interactions among 1987 | Notoedres cati in on cat 2010 |

| Japan contd. | Juvenile hormone I (C ₁₈) (see 2,6- | Keys |
|--|---|---|
| Notoedres cati in contd. | Nonadienoic acid, 7-ethyl-9-(3-ethyl-3- | Acanthophthirius 673 |
| on man 2010 Oedemeridae in, on man 711 | methyloxiranyl)-3-methyl-, methyl ester) Juvenile hormones | Aedes, in New York 2800 Aeromychirus 280 |
| Otodectes cynotis in, on dog 2243 | Diploptera punctata 2, 1267, 2323, 2330 | aquatic Hemiptera in California 1567 |
| Paederus fuscipes in, on man 711 | Locusta migratoria 2 | Araneae, in USA 2998 |
| Penicillidia monoceros in, on bat 2531 | Nauphoeta cinerea 746 | Asiochirus 1774 |
| Periplaneta fuliginosa in 50 | Periplaneta americana 2, 1508 | Calliphoridae |
| Polietes nigrolimbatus in, in cattle dung | Rhodnius prolixus 1275, 1508 | in Peninsular Malaysia 1950 |
| 3162 Pteracarus spp. in, on bat 1791 | Schistocerca gregaria 2 Tenebrio molitor 2 | in Ryukyu Islands 717 |
| P. faini in | identifying of 2 | Ceratopogonid larvae, in USSR 554 Chrysomya, in Singapore 1732 |
| on Miniopterus 663 | role of isopentenoids in chemistry of | Culex, in Taiwan 174 |
| on Plecotus 662 | 1474 | Culicidae |
| P. submedianus in, on Plecotus 662 | Kadethrin (see Cyclopropanecarboxylic acid, | in Amami and Ryukyu Islands 713 |
| Sarcophagidae in 717 | 3-[(dihydro-2-oxo-3(2 <i>H</i>)- | in France 177 |
| Scorpiones in 721 Simulium spp. in 714 | thienylidene)methyl]-2,2-dimethyl-, [5- (phenylmethyl)-3-furanyl]methyl ester, | Culicoides in Cayman Islands 1658 |
| S. aokii in, natural enemies of 851 | [1 R -[1 α ,3 α (E)]]-) | in Nansei Islands 715 |
| S. arakawae in 852 | kalaharia, Sergentomyia | Diptera, in pasture soils 1689 |
| S. bidentatum in 852 | kandelakii, Phlebotomus | Gasterophilidae, on mammals, in Poland |
| natural enemies of 1367 | Kangaroo carcasses, Chrysomya spp. in, in | 2473 |
| S. japonicum in, natural enemies of 850, | Queensland 588 | Haemaphysalis, in Nansei Islands 719 |
| 1367 S. tobetsuense in, natural enemies of 851 | Kansas, Haematobia irritans in, on cattle 1701, 1702 | Heteroptera, in USA 2999 Hoplopleura, in China 2335 |
| Siphonaptera in 718 | Karbosep (see Carbaryl) | Hypodermatidae, on mammals, in Poland |
| Spinturnix spp. in, on bat 943 | katoi, Tabanus | 2473 |
| Stomoxys calcitrans in, on cattle 2840 | Kelevan (ethyl 1,1a,3,3a,4,5,5,5a,5b,6- | Ixodoidea, in USA 2997 |
| Tabanidae in 716 Tabanus spp. in 890 | decachlorooctahydro-2-hydroxy-γ-oxo- 1,3,4-metheno-1 <i>H</i> - | Lardoglyphus 276 mites, in USA 2997 |
| T. iyoensis in, on man 2486 | cyclobuta[cd]pentalene-2-pentanoate) | Muscidae, in Ryukyu Islands 717 |
| T. rufidens in, on cattle 2487 | antibodies to, reversing insecticide | Muscinae, in Thailand 1731 |
| Tamiopsochirus spp. in 280 | inhibition of ATPase 2885 | Muscoidea, in cattle dung, in Australia |
| Trombiculidae in 720, 2925 on bat 942 | kelleyi, Ornithodoros | 1681 Myacarus 1451 |
| Uranotaenia lateralis in 821 | Kelthane (see Dicofol) Kemerovo viruses | Ochthera 1410 |
| Japanese encephalitis (see Encephalitis, | in | Oestridae, on mammals, in Poland 2473 |
| Japanese) | Aedes albopictus, not infective 2760 | Onitis, in Ethiopian region 1966 |
| japonensis, Myocoptes | Ixodes spp. 2966 | Palaeopsylla, in China 1033 |
| japonica, Caligula (Dictyoploca) japonica, Dictyoploca (see Caligula | Ixodoidea, in Norway 2965 Ornithodoros spp. 2966 | Paradoxiphis, on Scarabaeidae, in Australia 2893 |
| japonica) | Kentucky | Phlebotomus, in Tunisia 2446 |
| japonica, Haemaphysalis | Aedes atropalpus in, in tyres 157 | Polistinae, in Nepal 1174 |
| japonica, Lymantria dispar | A. sollicitans in 1615 | Psectrocladius, in British Isles 2187 |
| japonica, Periplaneta japonicum, Cheiracanthium | Anopheles quadrimaculatus in 1615 Culex restuans in 1615 | Pygmephorus, in North America 2643 Sarcophagidae |
| japonicum, Simulium | Cuterebra spp. in, on man 1678 | in Ryukyu Islands 717 |
| japonicus, Aedes | Diptera in, in fowl dung 2494 | in Thailand 3143 |
| japonicus, Pteracarus minutus Jaundice | Gasterophilus intestinalis in, on horse 2477 | Schoengastia, in New Guinea 3221 |
| in cattle, caused by <i>Theileria</i> 2225 | G. nasalis in, on horse 1680, 2477 | Sciurochirus 280 Scorpiones |
| in pig, caused by HCH 2631 | Kenya | in Saudi Arabia 1233 |
| Jectofer (see Iron sorbitex) | Aedes aegypti in 545, 1356, 2805 | in South-West Africa 2933 |
| Jerboa, Siphonaptera on, in USSR 1031 jersey, Hybomitra | Anopheles spp. in, in grain stores 3053 | in Venezuela 687 |
| JH-I (see 2,6-Nonadienoic acid, 7-ethyl-9- | applied entomology in 727 Culicoides spp. in, viruses in 2443 | Sepsidae, in British Isles 2184 Sergentomyia, in Tunisia 2446 |
| (3-ethyl-3-methyloxiranyl)-3-methyl-, | domestic animals in, pesticide poisoning of | Simuliidae, in Taiwan 840 |
| methyl ester) | 3252, 3253 | Simulium, in Nansei Islands 714 |
| JHA 129 (see Cyclopropanecarboxylic acid, 2-(8-ethoxy-4,8-dimethyl-3-nonenyl)-2- | Eretmapodites spp. in 3058 | Siphonaptera, in New Zealand subregion 769 |
| methyl-, methyl ester) | Glossina spp. in, natural enemies of 2986 G. longipennis in 860 | Steatonyssus, in China 2656 |
| JHA 132 (see Cyclopropanecarboxylic acid, | G. pallidipes in 860, 1670, 2463 | Stomoxyinae, in Thailand 1731 |
| 2-[6-(3,3-dimethyloxiranyl)-4-methyl-3- | flagellates in 1387 | Stylogaster, in Indo-Australian region |
| hexenyl]-2-methyl-, methyl ester) JHA 140 (see Cyclopropanecarboxylic acid, | Ixodidae in 644 leishmaniasis in 2814 | 595 Tabanidae |
| 2-(8-methoxy-4,8-dimethyl-3-nonenyl)-2- | onchocerciasis in 2452 | in Hispaniola 3161 |
| methyl-, methyl ester) | Ornithodoros coniceps in 1431 | in Nansei Islands 716 |
| JHA 147 (see Cyclopropanecarboxylic acid, | Phlebotomus martini in 2814 | in Poland 1722 |
| 2-(8-ethoxy-4,8-dimethyl-3-nonenyl)-2- methyl-, 1-methylethyl ester) | Rhipicephalus appendiculatus in, on cattle 1985 | Tabanini, in Thailand 1142 Tamiopsochirus 280 |
| JHA 148 (see Cyclopropanecarboxylic acid, | R. evertsi in 1179 | Triatominae 1276 |
| 2-(8-ethoxy-4,8-dimethyl-3-nonenyl)-2- | Scarabaeidae in, in African elephant dung | Trombiculidae, in Florida 2240 |
| methyl-, ethyl ester) | 1970 Kanana (see Chlordesone) | Werneckia 1272 |
| jiangkouensis, Macrostylophora cuiae jingtieshanensis, Amphipsylla | Kepone (see Chlordecone) Keratins, in Asian buffalo skin, effects of | Keystone virus |
| Jird, Mongolian (see Meriones | pesticides on 3249 | Aedes aurifer, in Connecticut 1897 |
| unguiculatus) | Keratosis | Chrysops obsoletus, in Connecticut |
| Jodfenphos (see Iodofenphos) | in cat, caused by Walchia americana 2024 | 1897 Culicidae transovarial transmission of |
| Johnbelkinia, taxonomy of 2764 Jojoba oil, synthesis of muscalure from | in man | Culicidae, transovarial transmission of 2969 |
| 1144 | caused by Demodex folliculorum 2021 | Kilex (see Carbaryl) |
| jonellus, Bombus | caused by Sarcoptes scabiei 3213 | Kinase (phosphorylating), arginine, in |
| Fucamosinoda aeguntia in on hat 394 | Kern County virus in Aedes dorsalis | Glossina morsitans, inheritance of 1378 |
| Ornithodoros coniceps in 1431 | Kern County virus, in, Aedes dorsalis, replication of 1578 | Kinase (phosphorylating), choline, in Culex quinquefasciatus, properties of 342 |
| jordani, Polygenis bohlsi | keshishiani, Phlebotomus | Kinase (phosphorylating), ethanolamine, in |
| Juniperus, repellent activity of extracts of | Kestrel, American (see Falco sparverius) | Culex quinquefasciatus 342 |
| 246 junius, Anax | Ketone , diisobutyl (see 4-Heptanone, 2,6-dimethyl-) | Kinase (phosphorylating), hexo- in Anopheles aquasalis, genetics of 1913 |
| Junonia almana | Ketone, methyl ethyl (see 2-Butanone) | isoenzymes |
| in Japan 710 | Ketones, as solvents for topical applications | in Culex pipiens, genetics of 2359 |
| on man, effects of 710 | of insecticides 303 | in Hybomitra, use in taxonomy of 223 |

583, 1162

```
Land use
Kinase (phosphorylating), thymidine, in
                                                                    Laelaps agilis
                                                                       biology of 672
    Periplaneta americana, stimulated by
                                                                                                                                           trypanosomiasis control as affected by,
    vitamin B<sub>12</sub> 1271
                                                                       descriptions of 672
                                                                                                                                                review 2464
kingi, Stachiella
                                                                       feeding behaviour in 672
                                                                                                                                            vectors as affected by changes in 2695
Kinneari, Haemaphysalis papuana
Kinneprene (2-propynyl (2E,4E)-3,7,11-
trimethyl-2,4-dodecadienoate)
                                                                       in Romania 672
in Sweden 672
in USSR 639
                                                                                                                                        langeroni, Phlebotomus
                                                                                                                                        Lankesteria culicis (see Ascocystis culicis)
Lanthanum, ion (La³+), in Phormia regina,
effects on sugar receptors of 2847
   in Nasonia vitripennis, toxicity of 2173
in Sarcophaga bullata, effects on parasites
of 2173
                                                                       on Apodemus flavicollis
                                                                         in Byelorussia 639
in Romania 672
                                                                                                                                        Laos, Tamiopsochirus laosensis in, on
                                                                                                                                             Sciuridae 280
                                                                                                                                        laosensis, Tamiopsochirus
lapponicus, Ectobius
                                                                       on Apodemus sylvaticus
in Romania 672
in Sweden 672
Kirkioestrus
   descriptions of 2474
on antelope, in Africa 2474
Kirkioestrus minutus
                                                                                                                                        Larch, European (see Larix decidua)
                                                                       on Clethrionomys glareolus, in Byelorussia
                                                                                                                                        lardarius, Dermestes
   descriptions of 3139
development in 3139
in South Africa 3139
                                                                                                                                        Lardoglyphus, keys to 276
Lardoglyphus falconidus
                                                                       on Mus musculus, in Romania 672
                                                                                                                                           sp. nov., description of 276 in USA 276
                                                                    Laelaps alaskensis
in USA 1424
   on Connochaetes taurinus, in South Africa
                                                                                                                                           in Falco sparverius nests, in New York 276
                                                                       on Synaptomys cooperi, in Indiana 1424
        3139
                                                                    Laclaps algericus
in Bulgaria 1778
   on Damaliscus dorcas, in South Africa
                                                                                                                                           on Dermestes pulcher, in New York 276 predators of, in New York 276
       3139
                                                                       on small mammals, in Bulgaria 1778 vertical distribution of 1778
Kitchens
  Blattaria in, in East Germany 2318 cockroach control in, traps for 481
                                                                                                                                         Lardoglyphus konoi
                                                                                                                                            alarm pheromone in, identity of 3223
                                                                    Laelaps clethrionomydis
   Monomorium pharaonis in, in West
Germany 460
                                                                       in Bulgaria 1778
                                                                                                                                            lipids in 2020
                                                                                                                                        Larix decidua, Tabanidae associated with, in France 1684
Larroussius, in Tunisia 2446
larseni, Stachiella
larvipara, Musca
Germany 460

Klebsiella, in, Argas persicus, in Pakistan
                                                                       on small mammals, in Bulgaria
                                                                        vertical distribution of 1778
                                                                    Laelaps echidnina
Klebsiella pneumoniae, in, Triatoma infestans excreta 2704
                                                                       in China 2639
on Typhlomys cinereus, in China 2639
                                                                    Laelaps hilaris
in Czechoslovakia 1792
in Poland 935
on bat, in Poland 935
                                                                                                                                        Lasiocampidae, on man, effects of 710 Lasius niger, in Yugoslavia 442
kohlsi, Ixodes
Kokobera virus, in, Culicidae, in Queensland
    3084
                                                                                                                                        Lassa virus, in, Aedes spp., not replicating
kolpakovae, Eulaelaps (see E. novus)
konoi, Cnetha (see Simulium konoi)
konoi, Lardoglyphus
konoi, Simulium (Cnetha)
                                                                       on Microtus arvalis, in Czechoslovakia
                                                                                                                                        lateralis, Blatta
                                                                                                                                        lateralis, Tropisternus
lateralis, Uranotaenia
                                                                            1792
                                                                        Pasteurella tularensis in, in
Korean hemorrhagic fever (see Hemorrhagic
                                                                            Czechoslovakia 1792
                                                                                                                                        laticinctus, Culex
    fever, Korean)
                                                                    Laelaps nuttalli, in Bulgaria, not found
                                                                                                                                        latiscutatus, Hirstionyssus (see H.
Korlan (see Fenchlorphos)
koshikiensis, Walchia
                                                                                                                                             butantanensis)
                                                                                                                                        Latoia consocia, venomous spines in 17.
Latoia sinica, venomous spines in 1736
Latrodectus, venoms of 2988
Latrodectus antheratus, venom of 1801
Latrodectus hesperus (see L. mactans)
                                                                    Laelaps pachysternus
kosmikensis, walcina
krameri, Culicoides
kuehniella, Ephestia
kumari, Hyalomma
Kuwait, desert arthropods in 1311
Kwellada (see Lindane)
                                                                       sp. nov., description of 2655 in China 2655
                                                                       on Rhizomys sinensis, in China 2655
                                                                    Laelaps pavlovskyi
in Bulgaria 1778
in Poland 935
                                                                                                                                        Latrodectus mactans
Kyasanur Forest disease
                                                                                                                                            in Australia 1459
                                                                                                                                            in New Zealand 1459
in USA 289, 2025
   virus
                                                                        on bat, in Poland 935
                                                                        on small mammals, in Bulgaria 1778
      in
         Dermacentor auratus
                                                                        vertical distribution of 1778
                                                                                                                                            in aircraft, arriving in England 2278
             in Karnataka 265
                                                                    Laelaps turkestanica
                                                                                                                                            on man
                                                                    in China 2639
on Typhlomys cinereus, in China 2639
laetitinctus, Tabanus
laeviceps, Ceratophyllus (see Nosopsyllus
                                                                                                                                               effects of bite by 289
in Australia 1459
in New Zealand 1459
             trans-stadial transmission of 264
         transmission of 264
Haemaphysalis kyasanurensis, in
Karnataka 265
H. papuana, in Karnataka 265
H. spinigera, in Karnataka 265
                                                                                                                                            treatment of bite by 289
preyed on by, Chalybion californicum, in
Oklahoma 2025
                                                                    laeviceps)
laeviceps, Nosopsyllus (Ceratophyllus)
         H. turturis
                                                                    laevigatus, Scheloribates
                                                                                                                                            group of
             in Karnataka 265
transmission of 265
                                                                    laevis, Porcellio
                                                                                                                                               biology of 424
                                                                                                                                               in Argentina 424 production in 2026
                                                                    Lagenidium giganteum
         Ixodes petauristae, transmission of
              265
                                                                           Aedes nigromaculis, in irrigated
                                                                                                                                        Latrodectus mactans hasseltii (see L.
kyasanurensis, Haemaphysalis
                                                                               pastures 1866
                                                                                                                                             mactans)
Kynurenine (see Benzenebutanoic acid, α,2-
diamino-γ-οxo-)
Kyzylagach virus
                                                                           Chaoborus astictopus, in ponds 2483
                                                                                                                                         Latrodectus mactans tredecimguttatus (see
                                                                                                                                             also Latrodectus tredecimguttatus)
                                                                           Culex tarsalis, in irrigated pastures
                                                                                                                                            in Italy 969
on man, in Italy 969
                                                                               1866
   characterisation of 3090
   in, Culex modestus, in Azerbaijan 3090
                                                                          Aedes nigromaculis, infectivity of 102
Anopheles freeborni, infectivity of 102
                                                                                                                                         Latrodectus tredecimguttatus (see also
                                                                                                                                            Latrodectus mactans tredecimguttatus) venom of 1802, 2251, 2252
La Crosse virus
   control of 1065
ecology of 1065
                                                                          Chaoborus astictopus, and biological control using, in California 101
                                                                                                                                         latyshevi, Ascoschoengastia
   epidemiology of 1065
                                                                           Culex tarsalis, infectivity of
                                                                                                                  102
                                                                                                                                              (Euschoengastia)
                                                                        WHO data sheet on 2356
                                                                                                                                         latyshevi, Euschoengastia (see
      Aedes triseriatus
infectivity of 1071
not affected by gregarines 1647
transmission of 1071
transovarial transmission of 1072,
                                                                     Lagomorpha, Ixodes ovatus on, in Nepal
                                                                                                                                             Ascoschoengastia latyshevi)
                                                                                                                                        Lauric acid (see Dodecanoic acid)
Lawn clippings (see Grass clippings)
lawrencei, Cheiracanthium
lawrensis, Lipeurus (see Numidilipeurus
                                                                    Lagurus curtatus, mites on, in Oregon 2232
                                                                     lahorensis, Alveonasus (see Ornithodoros
                                                                                                                                             lawrensis)
                                                                         lahorensis)
   man, in Iowa 1
in Americas 1065
                                                                     lahorensis, Ornithodoros (Alveonasus)
                                                                                                                                         lawrensis, Numidilipeurus (Lipeurus)
                                                                     lailae, Culicoides
                                                                                                                                         Law's JH mixture (major component) (see
2-Dodecenoic acid, 7,11-dichloro-3,7,11-
labranchiae, Anopheles
                                                                     Lake outlets, Simuliidae in, drift and
                                                                    colonisation by 1664

Lakes, Chaoborus astictopus in, in California 2484, 2485
Laccophilus terminalis, preying on,
                                                                                                                                              trimethyl-, methyl ester)
     Romanomermis culicivorax 106
                                                                                                                                         laysanensis, Ixodes
Laccotrephes maculatus, nitrogen in 2340
                                                                                                                                         leachii, Haemaphysalis
lacerata, Tramea
Lacrimation (see Tears)
                                                                     Lakes, man-made
                                                                                                                                         Leaf litter, invertebrates in, separating of
                                                                    Aedes communis in, in USSR 3097
A. punctor in, in USSR 3097
Lakes, recreational, Chironomidae in, in
California 889, 2877
                                                                                                                                             1812
Lactate dehydrogenase (see Dehydrogenase,
                                                                                                                                         Learning, in Blatta orientalis 486
    lactate)
                                                                                                                                         Lecithins
lacteipennis, Milichiella
                                                                                                                                            in grain mites 2020
                                                                                                                                            in Musca domestica cuticle, role in insecticide resistance of 583, 1
Lactic acid (see Propanoic acid, 2-hydroxy-)
                                                                     lamellifer, Coptopsylla
lactis, Carpoglyphus
                                                                     Land management, role in mosquito control
Laelaps, on mammals, in Mexico 2583
                                                                         of 3068
                                                                                                                                            in zebu plasma, effects of ticks on 1425
```

| Lecithins contd. | Leishmania major contd. | Lepidoptera contd. |
|--|---|--|
| unimolecular films of | taxonomy of, Leishmania peruvianus | vertebrate associations of, evolution of |
| against | distinct from 2447 | 2294 |
| Aedes spp. 469 | Leishmania mexicana | lepidopterorum, Cheletomorpha |
| Culicidae 1560 | biology of 47 | lepidum, Amblyomma |
| ectularius, Cimex | In Lutzamuja gamari lacalization of | Lepiselaga crassipes |
| Ledum palustre, repellent activity of extracts of 2262 | Lutzomyia gomezi, localisation of 3115 | in Costa Rica 2496 on horse, in Costa Rica 2496 |
| Legislation | L. longipalpis 47 | preyed on by, Bembix multipicta, in Cost |
| insecticide use in West Germany 473 | development of 441 | Rica 2496 |
| mirex use 299 | L. sanguinaria, localisation of 3115 | Lepomis |
| mosquito control 472 | Leishmania peruvianus | feeding behaviour in 1313 |
| pesticide registration 451 | in, Lutzomyia longipalpis, development of | preying on, Culicidae 1313 |
| warble fly eradication 2512 | 2447 | Leporacarus gibbus |
| Leishmania | taxonomy of | control of, acaricides for 418 |
| bibliography 3111 | distinct from L. major 2447 | in Netherlands 418 |
| in | distinct from L. tropica 2447 | on rabbit, in Netherlands 418 |
| dog | Leishmania tropica | leporispalustris, Haemaphysalis Leptinotarsa decemlineata |
| in Italy 835 | in | control of, insecticides for 295, 1227 |
| in Kenya 2814 | dog, in USSR 44 | enzymes in 1502 |
| lizard, Phlebotomine transmission of | Lutzomyia longipalpis, development of | growth regulators in, degradation of |
| 46 | 2447 | 1502 |
| mammals, in Neotropical region 42 | man | Leptinotarsa haldemani |
| man in Ethionia 936 | in Israel 558 | enzymes in 1502 |
| in Ethiopia 836 in Kenya 2814 | in USSR 44 Meriones crassus, in Saudi Arabia 838 | growth regulators in, degradation of |
| in Pakistan 2450 | M. libycus, in Saudi Arabia 838 | 1502 Leptocera |
| in Saudi Arabia 2134 | Phlebotomus spp., transmission of 44 | in mink dung, in Netherlands 624 |
| Phlebotominae, in Neotropical region | P. andrejevi, in Turkmenia 556 | in pig confinement housing, in Texas |
| 42 | P. mongolensis, in Turkmenia 556 | 1704 |
| Phlebotomus spp., transmission of | P. papatasi | Stigmatomyces crassicollis in, in Italy |
| 2950 | in Turkmenia 556 | 1960 |
| P. caucasicus, in Afghanistan 837 | transmission of 558 | Leptocera elegans |
| P. martini, in Kenya 2814 | Psammomys obesus, in Israel 558 | in USA 1407 |
| P. papatasi | Rhombomys opimus, in USSR 44 | in insect rearing media, in Texas 1407 |
| in Afghanistan 837 transmission of 2138 | Sergentomyia clydei, in Turkmenia | Leptocera ochripes |
| P. perniciosus, infectivity of 2446 | 556 S. dentata, in Turkmenia 556 | in France 1697 in cattle dung, in France 1697 |
| Proechimys spp., in French Guiana | taxonomy of, Leishmania peruvianus | Leptocera vagans |
| 2449 | distinct from 2447 | in USA 2161, 3155 |
| Rattus rattus, in Italy 2142 | Leishmaniasis | in feedlots |
| Rhombomys opimus | foci of 1104 | in Oklahoma 3155 |
| in Afghanistan 837 | in Ethiopia 836 | in Texas 2161 |
| in Turkmenia 1104 | in Israel 558 | in sheep dung 19 |
| Sergentomyia clydei, in Afghanistan | in Saudi Arabia 2134 | on sheep 19 |
| 837 | in Turkmenia 556, 1104 | preying on |
| S. dentata, in Turkmenia 556 | in USSR 44 | Nematodirus spathiger 19 |
| S. grekovi, in Turkmenia 556 | Leishmaniasis, visceral | Ostertagia circumcincta 19 |
| S. sintoni, in Afghanistan 837 Vulpes vulpes, in Italy 2142 | in Ethiopia 836 in Iraq 3110 | Trichostrongylus colubriformis 19 |
| reservoirs of, control of 2451 | in Pakistan 2450 | Leptocimex vespertilionis in Iraq 2711 |
| taxonomy of, review 1926 | in USSR 44 | on Asellia tridens, in Iraq 2711 |
| transmission of, review 1926 | in Venezuela 185, 186 | on man, in Iraq 2711 |
| vectors of | in Yugoslavia 444 | Leptoconops, in Cayman Islands 1658 |
| book 2985 | Leiurus quinquestriatus, venom of 683, | Leptoconops borealis |
| control of 2451 | 949, 1220, 1222 | breeding places of 2807 |
| Leishmania braziliensis | leleani, Tabanus | in USSR 2807 |
| biology of 47 | Lemming, southern bog (see Synaptomys | Leptomonas, biology of 45 |
| Lutzomyia anduzei, in Brazil 1100 | cooperi) | Leptopsylla ostsibirica (see Peromyscopsylla |
| L. longipalpis, development of 441 | lemniscata, Epicauta Lemniscomys striatus | ostsibirica) Leptopsylla segnis |
| L. sanguinaria, infectivity of 2136 | Ackertia globulosa in, in Kenya 1749 | in Japan 718 |
| L. umbratilis 47 | Haemaphysalis leachii on 1749 | on Rattus rattus, in Ryukyu Islands 718 |
| in Brazil 1100 | lenis, Mesopsylla | Leptotrombidium, in Kyushu 2925 |
| in French Guiana 2449 | lenti, Triatoma | Leptotrombidium akamushi |
| L. wellcomei 47 | Leopard, snow (see Uncia uncia) | habitats of 930 |
| taxonomy of 2447 | leopoldi, Triatoma | in India 930 |
| Leishmania donovani | Lepidium ruderale, insecticidal activity of | on small mammals, in Maharashtra 930 |
| in | mucilaginous seeds of 2120 | seasonal abundance of 930 |
| dog, in Venezuela 185, 186 | Lepidoglyphus destructor | Leptotrombidium alpinum |
| Phlebotomus papatasi, in Iraq 3110 vectors of, in India 2038 | in Peru 273 in Portugal 1795 | sp. nov., description of (in Trombiculindus) 1213 |
| Leishmania enrietti, in, Phlebotominae, | in UK 2650 | in China 1213 |
| development of 1926 | in house dust | on Apodemus sylvaticus, in Yunnan |
| Leishmania herreri | in Peru 273 | Province 1213 |
| sp. nov., description of 1099 | in Portugal 1795 | Leptotrombidium apertum |
| in | on man, hypersensitivity to 2634, 2650 | sp. nov., description of 932 |
| Bradypus griseus, in Costa Rica 1099 | Lepidoptera | in USSR 932 |
| Choloepus hoffmanni, in Costa Rica | book 2994 | on Alticola argentatus, in Tadzhikistan |
| 1099 | control of, biological 2355 | 932 |
| Lutzomyia shannoni, in Costa Rica 1099 | glycogen in, reserves of 2536 in Comoro Islands 2690 | on Cricetulus migratorius, in Tadzhikistai 932 |
| L. trapidoi, in Costa Rica 1099 | in Italy 987 | Leptotrombidium deliense |
| L. ylephiletrix, in Costa Rica 1099 | in bakery products 480 | biology of 938 |
| Leishmania infantum | in carrion, in USA 452 | control of |
| biology of 47 | insecticide resistance in 428 | acaricide-impregnated rodent baits for |
| in | on Dipodomys merriami, in California | 939 |
| Phlebotomus ariasi 47 | 3186 | acaricides for 939 |
| development of 441 | on man | emergence of, forecasting of 2919 |
| Leishmania major | effects of 710 | habitats of 930, 1772 |
| in, Lutzomyia longipalpis, development of | hypersensitivity to 1506 | illustrations of 938 in India 930 |

butoxyethoxy)ethyl ester)

```
Light-trap, CO<sub>2</sub>-4 contd. for, Culicidae 2797
Lentotrombidium deliense contd.
                                                                                Lethocerus, on man, bites by 1567
    in Malaysia 3217
                                                                                letifer. Anopheles
    in Papua New Guinea
                                                                                Leucania senarata (see Mythimna senarata)
                                                                                                                                                                 Light-trap, electrocuting
                                         1772
    in Taiwan 939, 2919
                                                                                                                                                                    efficiency of 2188
                                                                                L-Leucine
   on Mus musculus, in Taiwan 939
on Rattus, in Taiwan 939
                                                                                                                                                                    for, Musca domestica
                                                                                                                                                                                                         2188
                                                                                    in Locusta migratoria hemolymph, fate of
                                                                                                                                                                    insect control using 466
                                                                                         618
    on Rattus rajah, in West Malaysia 3217
                                                                                                                                                                 Light-trap, EVS
                                                                                    in Lucilia sericata hemolymph, fate of
    on small mammals, in Maharashtra 930
                                                                                                                                                                                             2795
                                                                                         618
                                                                                                                                                                    description of
    on Suncus murinus, in Taiwan 939
                                                                                 leuckarti, Mesocyclops
                                                                                                                                                                Culex spp. 2796
Culicidae 2795, 2797
Light-trap, EVS battery-operated fan blades for 1887
                                                                                Leucocytozoon simondi, in, Simulium rugglesi, transmission of 1927
rearing of, techniques for 938
seasonal abundance of 930
Leptotrombidium derlatkoi
                                                                                 Leucocytozoon smithi
biology of 1927
control of 1927
    sp. nov., description of 932 in USSR 932
                                                                                                                                                                 for, Culex quinquefasciatus 1887

Light-trap, Monks Wood

flashing fluorescent light for 1612
    on Apodemus sylvaticus, in Tadzhikistan
932
                                                                                        Simulium congareenarum, transmission
                                                                                                                                                                for, Simulium squamosum 841
Light-trap, New Jersey, for, Culicidae 95
ligula, Gahrliepia (see Schoengastiella ligula)
ligula, Schoengastiella (Gahrliepia)
    on Microtus juldaschi, in Tadzhikistan
                                                                                             of 1927
         932
                                                                                        S. nigritarsis, transmission of 1364
    on Rattus turkestanicus, in Tadzhikistan
                                                                                        S. slossonae
                                                                                           in Florida 365
         932
1932
Leptotrombidium fletcheri, taxonomy of, chaetotaxy 2581
Leptotrombidium gemiticulum in China 2638 on Apodemus agrarius, in China 2638 on Eutamias sibiricus, in China 2638
Leptotrombidium guangdongense
                                                                                           transmission of 1927
                                                                                                                                                                lilii, Aedes
                                                                                                                                                                Lime-sulfur (see Calcium sulfide (Ca(S<sub>x</sub>)))
Limephilus, insect growth regulators in,
residues of 800
                                                                                        turkeys
in Canada 1927
                                                                                           in South Africa 1364
in USA 1927
                                                                                                                                                                Limnogeton, preying on, snails 1567
Limnophora, in rivers, in Spain 1499
Limosina (see Leptocera)
                                                                                leucomelas, Aedes
                                                                                Leucophaea maderae
                                                                                                                                                                Limosina ochripes (see Leptocera ochripes) limpidus, Centruoides Lindane ((1\alpha,2\alpha,3\beta,4\alpha,5\alpha,6\beta)-1,2,3,4,5,6-
    sp. nov., description of (in
                                                                                    activity in, rhythm of 485
    Trombiculindus) 1215
in China 1215
                                                                                    agonistic behaviour in 999
                                                                                    embryonic development in 1512
    on Rattus edwardsi, in Guangdon
Province 1215
                                                                                        oxygen consumption during 1511
                                                                                                                                                                      hexachlorocyclohexane)
                                                                                oxygen consumption during 1. epidermis in, scutona in 49 gonads in, development of 1510 gut cuticle in, permeability of 27 hemolymph in, clotting of 3007 immunity in 2306 leucosticta, Fannia
                                                                                                                                                                    against
                                                                                                                                                                        Aedes spp. 1225
Amblyomma lepidum 1999
A. variegatum 1999
Anopheles atroparvus 1242
Blattaria 304
Blattella germanica 1225, 1242
Cimex lectularius 1225, 1242
Cilisidas 2004
Leptotrombidium multiplex
   sp. nov., description of 932 in USSR 932
    on Apodemus sylvaticus, in Tadzhikistan
932
Leptotrombidium pallidum, Korean
                                                                                 leucostoma, Ophyra
      hemorrhagic fever, virus in, transmission
                                                                                 Leucotabanus annulatus, in USA 1161
      of 994
                                                                                 Leukocytosis
                                                                                                                                                                        Culicidae 304
                                                                                in horse, caused by Epicauta 402 in pig, caused by HCH 2631

Levarterenol ((R)-4-(2-amino-1-hydroxyethyl)-1,2-benzenediol) in Periplaneta americana central nervous system, localisation of 752 in rat, Latrodectus tredecimguttatus
                                                                                                                                                                        Demodex folliculorum, on man 3224
Formicidae 304
Glossina palpalis 572
Haematobia irritans 1937
Haematopinus tuberculatus, on Asian
Leptotrombidium palpale
Leptorromolaum papaie
in China 1211
seasonal abundance of 1211
Leptotrombidium peromysci
descriptions of 2240
in USA 1800, 2240
on Tamiasciurus hudsonicus, in Indiana
                                                                                                                                                                              buffalo 61
                                                                                                                                                                        Hyalomma spp., on livestock 3209
Musca domestica 1225, 1242, 2869
                                                                                    venom stimulating secretion of 22 in rat arteries, released by Latrodectus antheratus venom 1801
         1800
                                                                                                                                                                        Otodectes cynotis
on cat 416
on dog 416
Leptotrombidium scutellare
    in China 1211
seasonal abundance of 1211
                                                                                in rat brain, effects of Apis mellifera
venom on 1422
lewisi, Cladotanytarsus
 Leptotrombidium smirnovi, in USSR 932
                                                                                                                                                                        Panstrongylus megistus 2336
                                                                                                                                                                        Pediculus capitis, on man 756, 1273
Psoroptes cuniculi, on goat 2915
P. equi, on Asian buffalo 270
P. ovis, on cattle 414
Leptotrombidium solum
   sp. nov., description of 932 in USSR 932
                                                                                 li, Rhadinopsylla
                                                                                Liatongus militaris, in New Caledonia, introductions of 2375
   on Apodemus sylvaticus, in Tadzhikistan
932
                                                                                 Libellulidae, preying on, Simuliidae, in Brazil 1373
                                                                                                                                                                        Rhipicephalus sanguineus 2614
Sarcoptes scabiei
Leptotrombidium subintermedium
    hosts of 2638
in China 2638
                                                                                 Liberia
                                                                                                                                                                            on Asian buffalo 270
                                                                                                                                                                           on camel 270
on man 1457, 2921, 3214, 3215,
                                                                                    Anopheles funestus in 1046
Leptotrombidium tamanta
                                                                                    A. gambiae in 1 malaria in 1046
                                                                                                             1046
    sp. nov., description of 932 in USSR 932
                                                                                                                                                                                 3216, 3226
                                                                                Libya, Oestrus ovis in, on man 3138
Lidocaine (2-(diethylamino)-N-(2,6-
                                                                                                                                                                        Trixacarus caviae, on guinea-pig
                                                                                                                                                                    formulations of, slow-release 2336 fumigant activity of 304 in Boophilus microplus, effects on oviposition of 2598 in cattle milk, residues of 275 in Musca domestica, sublethal effects of
    on Apodemus sylvaticus, in Tadzhikistan 932
                                                                                      dimethylphenyl)acetamide)
                                                                                    in rat, preventing stimulation of gastric secretion by Tityus serrulatus venom
Leptotrombidium wolandi
    sp. nov., description of 932 in USSR 932
                                                                                          290
                                                                                 liepae, Stylogaster
    on Alticola argentatus, in Tadzhikistan
         932
                                                                                 Light-trap
Leptotrombidium yui
in China 1211
                                                                                    for
                                                                                                                                                                    in pig, toxicity of 2631
                                                                                        Ceratopogonidae 1658
                                                                                                                                                                    resistance to, in
    seasonal abundance of 1211
                                                                                        Culex tritaeniorhynchus
Culicidae 120, 541
Culicoides 3106
                                                                                                                                                                        Amblyomma variegatum, in Tanzania
Lepus americanus
   Dermacentor variabilis on, distribution pattern of 3192

Haemaphysalis leporispalustris on, distribution pattern of 3192
                                                                                                                                                                    Musca domestica, in West Germany 2504, 3167
Rhipicephalus appendiculatus, inheritance of 2597
R. evertsi, in Kenya 1179
with dichlorvos, against, Argas persicus, in fowl houses 640
                                                                                    Musca domestica 2875
Triatominae 69
made from 'Star Beam' toy 2949
mosquito control using 472
Lepus capensis
    Haemaphysalis hispanica on, in Spain
                                                                                 Light-trap, baffle, for, Culicoides variipennis
          1479
                                                                                       1660
    Ixodoidea on, in Spain 1494
                                                                                 Light-trap, CDC
                                                                                                                                                                    with fenitrothion, against, Argas persicus, in fowl houses 640
    Odontopsyllus quirosi on, in Spain 1482
                                                                                    CO<sub>2</sub> gas equipment for 2259
Siphonaptera on, in Spain 1494

Lepus timidus, Cynomya mortuorum on, in Finland 2881

Lesetho.
                                                                                                                                                                    with malathion, against, Argas persicus, in fowl houses 640
                                                                                        Ceratopogonidae 180
                                                                                 Culicidae 95
Light-trap, CDC miniature
evaluating of catches in 2786
                                                                                                                                                                     with phenylmethyl benzoate, against,
                                                                                                                                                                    Demodex canis, on dog 2008 with trichlorphon
Lesotho
    Psoroptes ovis in
                                                                                                                                                                        against
on goat 272
on sheep 272
Lethane 384 (see Thiocyanic acid, 2-(2-
                                                                                        Culex spp. 2796
Culicidae 2786, 2797
                                                                                                                                                                           Blattella germanica 1242
Cimex lectularius 1242
                                                                                 Light-trap, CO<sub>2</sub>-4
description of 2797
                                                                                                                                                                Lindatox (see Lindane)
lineata, Wilhelmia (see Simulium lineatum)
```

| Subject Index | | 503 |
|--|---|--|
| lineaticolis, Sarcophaga | Listrophorus occitanus contd. | Lord Howe Island |
| lineatopennis, Aedes | in Spain 274 | Conopidae in 595 |
| lineatum, Hypoderma | on Ârvicola terrestris | Lucilia sericata in 595 |
| lineatum, Simulium (Wilhelmia) | in France 274 | lotoris, Chaetopsylla |
| lineatus, Mesogomphus | in Spain 274 | Louisiana |
| lineolaris, Lygus | on Microtus, in France 274 | Aedes aegypti in 1346, 1624 |
| Linognathus setosus | on Pitymys duodecimcostatus, in Spain | Culex tarsalis in 163 |
| in Japan 708 | 274 | Culicidae in, in rice-fields 1620 |
| on dog, in Japan 708 | Listrophorus synaptomys | Gasterophilus nasalis in, on horse 1680 |
| Linognathus vituli | in USA 1424 | Haematobia irritans on, in cattle 3168 |
| control of, insecticides for 757, 2702 | on Synaptomys cooperi, in Indiana 1424 | Louping ill, virus, in, horse, replication of |
| in Australia 2702 | Listropsylla | 3207 |
| in Irish Republic 3015 | descriptions of 2717 | Louse (see Phthiraptera) |
| in New Zealand 757 | in South Africa 2717 | Louse infestations |
| in USA (Hawaii) 2280 | Listropsylla agrippinae | in Asian buffalo 61, 708 |
| on cattle effects on blood of 3015 | descriptions of 2717 in South Africa 2717 | in cattle 488, 757, 758, 1771, 2702, 301 in deer 37 |
| in New South Wales 2702 | Lithospermum arvense, insecticidal activity | in dog 708 |
| in New Zealand 757 | of extracts of 1603 | in domestic animals 448, 1262 |
| not affecting growth rate 3015 | Litomosoides carinii, in, Ornithonyssus | in fowl 1531, 2333, 3014 |
| Linoleic acid (see 9,12-Octadecadienoic acid, | bacoti, transmission of 2405 | in horse 1495 |
| (9Z,12Z)-) | litorea, Culiseta | in livestock 2045, 2046 |
| Linolenic acid (see 9,12,15-Octadecatrienoic | Little Sussex virus, in, Culicidae, in | in man 59, 62, 419, 459, 708, 756, 969, |
| acid, (9Z, 12Z, 15Z)-) | Queensland 3084 | 1007, 1241, 1273, 1274, 1533, 1535, |
| linsdalei, Hystrichopsylla occidentalis | littoralis, Spodoptera | 2066, 2279, 3019 |
| Linseed oil, with diesel oil, against, | Liver, diet component for, Ophyra aenescens | in mink 57, 1256, 1527 |
| Anopheles spp. 2757 | 908 | in mouse 1534 |
| Liomys irroratus, Cuterebra fontinella on, in | Liver powder | in pet birds 669 |
| Texas 1389 Lion (see Panthera leo) | diet component for Anopheles sinensis 82 | in pig 708, 2334, 2926, 3018 in pigeon 1480 |
| liosoma, Parabuthus | Toxorhynchites brevipalpis 827 | in sheep 599, 1776 |
| Lipase, triacylglycerol | Livestock | in turkeys 925 |
| in Aedes aegypti mid-gut, secretion of | arboviruses in, in Canada 2964 | lowii, Uranotaenia |
| 1652 | Hybomitra montana on, in Maritime | Loxosceles |
| in Culex tarsalis 831 | Territory 2168 | on man, effects of bite by 996 |
| in Loxosceles reclusa venom 2662 | pest control on, pesticides for 2281 | venoms of 2988 |
| in Periplaneta americana, end-product | Rhipicephalus appendiculatus on, effects | Loxosceles reclusa |
| specificity in 2698 | of stocking density on 1988 | envenomation by, review 951 |
| lipeuroides, Tricholipeurus | Tabanidae on | enzymes in 2661, 2662 |
| Lipeurus, on pigeon, in Spain 1480 | in Thailand 1142 | on guinea-pig, complement inactivation b |
| Lipeurus caponis | in USA 2862 | 682 |
| control of, insecticides for 2333 in India 2333 | Livestock farms, synanthropic Diptera in, in Bulgaria 877 | on man |
| on fowl, in Andaman and Nicobar Islands | Livestock housing, pest control in 2538 | attachment of venom to erythrocytes 3234 |
| 2333 | lividus, Aphodius | pathogenicity of 2934 |
| Lipeurus lawrensis (see Numidilipeurus | lividus, Ixodes | taxonomy of, confused with Heteropoda |
| lawrensis) | livingstonei, Mictyris | venatoria 1223 |
| Lipids | Lizard | venom of 682, 684, 685, 2661, 2662, |
| in Aedes aegypti, Dipetalonema dessetae | Leishmania spp. in, Phlebotomine | 2934, 3234 |
| depleting reserves of 2367 | transmission of 46 | insecticidal activity of 3232 |
| in Aedes aegypti mid-gut, during digestion | Phlebotominae on, feeding by 46 | separation of components of 291 |
| 1652 | preying on, Glossina austeni 1115 | Loxosceles rufescens |
| in Glossina morsitans milk, synthesis of | Rhodnius pallescens on | in Japan 721 |
| 2149 in again mites 2020 | in Panama 3024 | in dwellings, in Nansei Islands 721 |
| in grain mites 2020 in insects, digestion and absorption of, | in Panama Canal Zone 21 Lobster, Latrodectus tredecimguttatus | on man, lesions caused by 1221 Lucerne (Medicago sativa) |
| review 1815 | venom in, effects on neuromuscular | pest control on, effects on Apis mellifera |
| in Musca domestica cuticle, role in | junctions of 2251 | of 163 |
| insecticide resistance of 1162 | loculosum, Amblyomma | Lucerne hay, Epicauta spp. in, poisoning of |
| in Tyrophagus putrescentiae, | Locusta migratoria | horse by 402 |
| incorporation of 1,3-butanediol into | aspartate in, effects on motor activity of | Lucilia |
| 1975 | 1 | control of 2874 |
| Lipofuscins, in Musca domestica, | glutamate in, effects on motor activity of | review 2296 |
| accumulation of 397 | | on livestock, in Nigeria 2046 |
| Liponyssoides bengalensis | hemolymph in, amino acids in 618, 619 | on sheep, in Romania 2529 |
| sp. nov., description of 1796 in India 1796 | juvenile hormones in, identifying of 2 Locusta migratoria manilensis | taxonomy of 1143 Lucilia calviceps, taxonomy of 1143 |
| on man, in West Bengal 1796 | biology of 986 | Lucilia cuprina |
| liponyssoides, Haemogamasus | physiology of, Chinese research on 984 | biology of 2506 |
| Lipoptena cervi | lodianensis, Rhyzolaelaps | cannibalism not found in 1715 |
| in Finland 1943, 1952, 2859 | Lokern virus, in, Aedes dorsalis, replication | chemosterilants in, effects on developmen |
| on Alces alces, in Finland 1952 | of 1578 | of 606 |
| on Canis lupus, in Finland 2859 | longiareolata, Culiseta | control of 38 |
| on man, in Finland 1952 | longicornis, Haemaphysalis | crutching for 893 |
| Lipoptena fortisetosa | longicornis, Rhabdopedilon | fleece drying for 1938 |
| descriptions of 2858 | longidens, Culicoides | genetic 2269 |
| in Japan 2858 | longidigita, Palaeopsylla | growth regulators for 2506, 3165 |
| on deer, in Japan 2858 on man, in Japan 2858 | longior, Chortoglyphus longior, Euroglyphus | insecticides for 596, 607, 609, 893, 895, 897, 1151, 2175, 2866, 3016, |
| seasonal abundance of 2858 | longipalpa, Supella | 3164 |
| Lipoptena sikae | longipalpis, Glossina | mulesing for 893, 896 |
| descriptions of 2858 | longipalpis, Lutzomyia (Phlebotomus) | pizzle dropping for 227 |
| in Japan 2858 | longipalpis, Phlebotomus (see Lutzomyia | tail docking for 893, 896 |
| on deer, in Japan 2858 | longipalpis) | timing of 896 |
| on man, in Japan 2858 | longipalpus, Psorophora | DDT-pyrethroids in, neurophysiological |
| seasonal abundance of 2858 | longipennis, Glossina | effects of 1469 |
| Listeria monocytogenes, in, cattle, in | longipennis, Hippobosca | development in, metabolic rate per unit |
| Georgia (USSR) 1187 | longines Haemolaelans (Haemolaelans) | weight during 585 diazinon resistance in |
| Listrophorus gibbus (see Leporacarus gibbus) | longipes, Haemolaelaps (see Androlaelaps longipes) | genetics of 1127, 2883 |
| Listrophorus occitanus | longistylatum, Simulium | in New South Wales 596 |
| sp. nov., description of 274 | longivalvis, Arcyophora | in Victoria 596 |
| in France 274 | lopesi, Culex | enzymes in 1151, 2493 |

Lucilia cuprina contd. eye colour mutants of 2493 flight muscles in, mitochondrial calcium transport in 2179 illustrations of 2506 in Australia 38, 227, 596, 893, 895, 896, 897, 1138, 1938, 2506, 2882, 2883, 3165 in Costa Rica in USA 207, 2873 in dustbins, in California 207, 2873 in human cadavers, in Costa Rica 2532 insecticide resistance in 895 larval development in 579 morphological markers for 2276 on sheep antibodies to 2882 assessing susceptibility to 3166 damage caused by 2506 effects of fleece moisture on 1938 in Australia 1138 in New South Wales 893, 895, 896, 897, 3165 in Western Australia 38 ovarian development in 1403 1404 effects of chemosterilants on pupal development in 3144 oxygen requirements during 621 reproduction in 589 retinal pigments in, in yellow mutant 3149 1167 sexual receptivity in, effects of diet on 2189 spiracles in, morphogenesis of 1415 sterilisation of chemosterilants for 608, 1733 techniques for 608
synergists in, mode of action of 1151
water content in, developmental changes
in 1133
Lucilia eximia in Costa Rica 2532 in dog carcasses, in Costa Rica 2532 in human cadavers, in Costa Rica 2532 Lucilia illustris Lucilia illustris
control of, insecticides for 2494
in USA 2494, 2850
in fowl dung, in Kentucky 2494
on Procyon lotor, in California 2850
Lucilia papuensis, taxonomy of 1143
Lucilia salazarae
sp. nov., description of 2159
in Philippines 2159 in Philippines 2159 in carrion, in Philippines 2159 Lucilia sericata aspartate in, not affecting motor activity associated with, Stylogaster liepae, in Lord Howe Island 595 biology of 1141 competing with, Phormia regina 3142 control of 38 insecticides for 2502 testing oral toxicity of 384 l-decanol in, toxicity of 399 Entomophthora bullata in, pathogenicity 1411 glutamate in, effects on motor activity of glyceryl trioleate in, toxicity of 399 hemolymph in, amino acids in 618, 619 hexadecane in, leg paralysis caused by 399 hosts of 1134 in Australia 38 in Austria 1134 in East Germany 2502 in Lord Howe Island 595 in South Africa 379, 614 in UK 1141 in USA 207 in dustbins, in California 207 in sea-gull carcasses, in South Africa 614 intraspecific competition in 3142 neurosecretory system in, effects of diet on nucleic acids in 396 on Asio flammeus, in Austria on cat, in East Germany 2502 on dog, in East Germany 2502 oogenesis in, effects of diet on 1723

Lucilia sericata contd. parasitised by, Tachinaephagus zealandicus, in South Africa 379 permethrin in, effects on neuromuscular transmission of 1163 Risella 17 oil in, leg paralysis caused by 300 Risella 33 oil in, leg paralysis caused by Lucilini, taxonomy of 1143 lucorum, Bombus lugens, Nilaparvata lukoschusi, Echinonyssus lukoschusi, Tamiopsochirus Lursect attractant for Hippelates collusor 2876

Musca domestica 2875, 2876 lusitanicum, Hyalomma lusoria, Musca luteocephalus, Aedes luteus, Ophion Lutreola vison (see Mink) Lutzomyia, Leishmania spp. in, transmission of, review 1926 Lutzomyia anduzei utzomyia anduzei descriptions of 2812 flagellates in, in French Guiana 2449 in Brazil 1100 in French Guiana 2449, 2812 Leishmania braziliensis in, in Brazil 1100 Lutzomyia dispar descriptions of in Brazil 1663 on dog, in Brazil on horse, in Brazil 1663 on man, in Brazil 1663 Lutzomyia fischeri, in Brazil 1102 Lutzomyia gomezi Endotrypanum schaudinni in, infectivity of 2136 Leishmania mexicana in, localisation of Lutzomyia longipalpis 1102 egg production in, factors affecting 2135 in Venezuela 186 in pig farms, in Venezuela 186

Leishmania braziliensis in, development of 441 L. major in, development of 2447
L. mexicana in 47
development of 441
L. peruvianus in, development of 2447
L. tropica in, development of 2447 Lutzomyia moucheti sp. nov., description of 360 in French Guiana 360 Lutzomyia sanguinaria Endotrypanum schaudinni in, infectivity of 2136 Leishmania braziliensis in, infectivity of 2136 L. mexicana in, localisation of 3115 Trypanosoma rangeli in, infectivity of 2136 Lutzomyia shannoni flagellates in, in French Guiana 2449 in Costa Rica 1099 in French Guiana 2449 Leishmania herreri in, in Costa Rica 1099 Lutzomyia trapidoi Endotrypanum schaudinni in, infectivity of 2136 in Costa Rica 1099 Leishmania herreri in, in Costa Rica 1099 Lutzomyia umbratilis in Brazil 1100 in French Guiana 2449, 2812 Leishmania braziliensis in 47 in Brazil 1100 in French Guiana 2449 on man, in French Guiana 2449 Lutzomyia vexator, taxonomy of, spelling of Lutzomyia vexatrix, taxonomy of, error for L. vexator 1101 Lutzomyia wellcomei, Leishmania

braziliensis in 47 Lutzomyia ylephiletrix in Costa Rica 1099 Lutzomvia vlephiletrix contd. Leishmania herreri in, in Costa Rica 1099 Luxembourg, Blattaria in 1168 luzonensis, Acanthophthirius LY-69273 (see Carbamic acid, [4-nitro-2,6bis(trifluoromethyl)-1H-benzimidazol-1yl]-, 1-methylethyl ester)
LY-74281 (see 1H-Benzimidazole-1carboxylic acid, 2-(chlorodifluoromethyl)-4-nitro-6-(trifluoromethyl)-, 1methylethyl ester)

LY-103435 (see 1H-Benzimidazole-1-carboxylic acid, 4-nitro-2-(1,1,2,2-tetrafluoroethyl)-6-(trifluoromethyl)-, 1tetrafluoroethyl)-6-(trifluoromethyl)-, 1-methylethyl ester)

LY-110972 (see 1H-Benzimidazole-1-carboxylic acid, 2-(chlorodifluoromethyl)-4-nitro-6-(trifluoromethyl)-, ethyl ester)

Lycopersicon esculentum (see Tomato)

Lycosa, on man, in Utah 688 Lyctocoris campestris in Hungary 1543 in birds' nests, in Hungary 1543 Lygus lineolaris, control of, growth regulators for 1393

Lymantria dispar albescens (see L. d. iaponica) Lymantria dispar japonica in Japan 710 on man, effects of 710 Lyme arthritis (see Arthritis, infectious) Lymnaea, insect growth regulators in, residues of 800 Lymnaea tomentosa, preyed on by, Dictya umbrarum 898 Lymnaea truncatula Fasciola hepatica in, in Irish Republic 2293 preyed on by, *Hydromya dorsalis*, in Irish Republic 2293 Lymphadenitis, in man, Pasteurella tularensis causing symptoms of 2905
Lynx rufus, Siphonaptera on, in USA 1028 Lynxacarus mustelae in USA 1256 on Mustela frenata, in Indiana 1256 Lynxacarus nearcticus in USA 1256
on mink, in Indiana 1256
on Mustela frenata, in Indiana 1256
Lyperosia exigua (see Haematobia irritans exigua) Lyperosia irritans (see Haematobia irritans) Lyperosia titillans (see Haematobia thirouxi titillans) Lysolecithins, in zebu plasma, effects of ticks on 1425 ticks on Lysophosphatidylcholines (see Lysolecithins) Lysozyme in Blaberus craniifer, methylprednisolone enhancing bovine-serum-albumin stimulated production of 2321 in Hyalomma asiaticum
bactericidal activity of 1748
isoelectric point of 2610
in Ornithodoros, bactericidal activity of in Ornithodoros lahorensis, isoelectric point of 2610 in Ornithodoros moubata, isoelectric point of 2610
in Ornithodoros tholozani, isoelectric point of 2610
Macaca mulatta, Plasmodium knowlesi in, immunization against 824 macedonicus, Hirstionyssus macellaria, Cochliomyia macer, Tabanus (see T. dorsilinea) macfarlanei, Pteracarus
macfarlanei, Uranotaenia
Macquarie Island, Siphonaptera in 769 Macrocheles glaber in Australia 2570 in cattle dung in Australia 2570
role in fly control of 2315
on Onthophagus granulatus, dispersal of 2570 predation by, effects of dung quality on preying on, Musca vetustissima, in Australia 2570

| in Netherlands 1933 in Stand Arabia 123.5 in Sund Arabia 123.5 in Folio parretries needs, in New York 270. parasiting, Musea denestics, in New York 270. Lackophyphus falcondus, in New York Masea donactics, in New York Masea of the New York Ma | Macrocheles muscaedomesticae | Maize fields, Phlebotominae in, in | Malathion contd. |
|--|---|--|--|
| in USA 276 in Falco sparreriss nests, in New York | in Netherlands 2503 | | in Asian buffalo contd. |
| in Falso sparrerits nests, in New York positions, Manage domestics, in New York Lackoplyphus falconidus, in New York Musca domestics, in Netherlands 200 Macrocheles scutatus, in Julgaria 1777 Macrocheles scutatus, in Julgaria 1777 In inster rearing neslus, in Hawaii 1407 Macrocheles scutatus, in Julgaria 1407 Macrocheles scutatu | in Saudi Arabia 1235 | major, Phlebotomus | toxicity of 1229 |
| in Falsto gaurretins nests, in New York | in USA 276 | makokoui, Herpetacarus | in Blatta orientalis, effects of temperature |
| Malagany Republic approximation of 201 provinging mass propriate in the control of 201 provinging mass provinging provinging mass provinging p | in Falco sparverius nests, in New York | | |
| parastisting, Masca domestica, in Saudi Arabia 1232 Lardoglyphus falconidus, in New York 276 Masca domestica in Notherlands 273 Masca domestica in Notherlands 2740 Masca dome | | | |
| Artabia 1235 Percentage of the production of the properties of the properties of the production of the | parasitising, Musca domestica, in Saudi | arboviruses in 2408 | |
| Decided and positions of the properties of the p | Arabia 1235 | Culex watti in 2781 | |
| Lackgelyphus falsondisa; in New York Muse domestica, in Neltentials 293 Macrocheles substants, in Bulgaria 1777 Macroches substants 293 Macrocheles substants, in Bulgaria 1777 Macroches substants 293 Macrocheles substants 293 Macrocheles substants in Hawaii 1407 In insect raring media, in Hawaii 1407 Macroman, prograggi on, Simulidae, in Servantia 1873 Macroches substants 293 Macroches s | preying on | Culicidae in 2408 | |
| Archaeles selections in Neparthees pitchess with DDT on 794 moderations as processed in SAs (Hawaii 1497) Marchaeles subbidies in USAs (Hawaii 1497) March | Lardoglyphus falconidus, in New York | medical entomology in 2692 | |
| weterinary entomology in 2692 Macrocheles sublidiars in Bulgaria 1777 Macronescome programs on Simulidiae in 1407 Macroness on Post in Japan 2637 Macroness on to take in Poland 935 Macroness or on the six in Japan 2637 Macroness or on the six in Japan 2637 Macroness or on the six in Japan 2637 Macroness or on the six in Poland 935 Macroness or of the State of Stat | 276 | Uranotaenia spp. in, in Nepenthes pitchers | |
| Macroness preying on, Simulidate, in Brazil 1973 Macroness preying on, Simulidate, in Brazil 1973 Macroness preying on, Simulidate, in Brazil 1973 Macroness barbastellines in Poland 935 on bat, in Poland 935 defencion of Poland 935 on bat, in Poland 935 on bat, i | Musca domestica, in Netherlands 2503 | 548 | in Musca domestica, effects of |
| in USA (Hawaii) 1407 Macronesan, proving on, Simulidiae, in Macronyssake, on bat, in Poland 935 Macronyssake, on bats, in Japan 2637 Macronyssake, on bats, in Japan 2637 Macronyssake protectorprocrets in Poland 935 on bat, in Poland 935 Macronyssake orderpropercus in India Bel 27 Macronyssake orderpropercus in India Be | | | |
| in insect rearing media, in Hawaii 1407 Macroners, reging on, Simulidiae in before the problem with, region of the problem of 35 Macronyssus buts, in Japan 2637 Macronyssus obsts, in Japan 2637 Macronyssus obsts, in Japan 2637 Macronyssus obsts, in Japan 2637 Macronyssus confittenporeus in Foland 935 Macronyssus confittenporeus in India 1627 in Poland 935 Macronyssus confittenporeus in India 1627 in Poland 935 mo hat, in Poland 935 mo h | | | |
| on Spetmophilus beechey, in California [1872] 1373 Macronyssus farbastellinus in Poland 935 Macronyssus, on bata, in Paland 935 m Poland 935 m Polan | | | |
| Brazil 1373 Macronyssas Autorolystside, on but in Poland 935 Macronyssas Parkstellinus in Poland 935 on but in Poland 936 on but in Pol | | | |
| Macronyssidae, on bat, in Poland 95 Macronyssid poland 95 Macronyssid control procusing in Poland 95 Macronyssid control procusing in Poland 95 Macronyssid control procusing in Poland 95 Macronyssid exception of 253 on bat, in Poland 95 on bat, in Poland 95 Macronyssid exception of 254 macronysid ellipticus in New South Wales 2800 no hat, in Poland 95 Macronyssid ellipticus in New South Wales 2800 no hat, in Poland 95 Macronysid ellipticus in New South Wales 2800 no hat, in Poland 95 Macronysid ellipticus in New South Wales 2800 no hat, in Poland 95 macronysid ellipticus in New South Wales 2800 no hat, in Poland 95 macronysid ellipticus in New South Wales 2800 no hat, in Poland 95 macronysid ellipticus in New South Wales 2800 no hat, in Poland 95 macronysid ellipticus in New South Wales 2800 no hat, in Poland 95 macronysid ellipticus in New South Wales 2800 no hat, in Poland 95 macronysid ellipticus in New South Wales 2800 no hat, in Poland 95 macronysid ellipticus in New South Wales 2800 no hat, in Poland 95 macronysid ellipticus in New South Wales 2800 no hat, in Poland 95 macronysid ellipticus in New South Wales 2800 no hat, in Poland 95 macronysid ellipticus in New South Wales 2800 no hat, in Poland 95 macronysid ellipticus in New South Wales 2800 no hat, in Poland 95 macronysid ellipticus in New South Wales 2800 no hat, in Poland 95 macronysid ellipticus in New South Wales 2800 no hat, in Poland 95 macronysid ellipticus in New South Wales 2800 no hat, in Poland 95 macronysid ellipticus in New South Wales 2800 no hat, in Poland 95 macronysid ellipticus in New South Wales 2800 no hat, in Poland 95 macronysid ellipticus in New South Wales 2800 no hat, in Poland 95 macronysid ellipticus in New South Wales 2800 no hat, in Poland 95 no callos current wales and the Poland Pol | | | |
| Macronyssus, on batis, in Japan 2637 Macronyssus phresterillures in Poland 935 on bat, in Poland 936 on bat, i | | | |
| Macronyssas cerethroproctus in Poland 935 on bat, in Poland 935 in Poland 935 on bat, in Poland 936 on bat, in Poland 936 on bat, in Poland 936 on bat, in | | | |
| on bat, in Poland 935 Macronyssus (pilons) In Poland 935 On bat, i | | | |
| antimalarials for 1046 epidemiological surveillance in 1058 in Recorporation control of the pidemiological surveillance in 1058 in Recorporation of 158 in Mexico 3041 side-effects of 64 control of 723, 980, 1046, 1060, 2286, 2448, 2456, 2755, 2774 (2014) side-effects of 64 control of 723, 980, 1046, 1060, 2286, 2448, 2456, 2755, 2774 (2014) side-effects of 64 control of 723, 980, 1046, 1060, 2286, 2448, 2456, 2755, 2774 (2014) side-effects of 64 control of 723, 980, 1046, 1060, 2286, 2448, 2456, 2755, 2774 (2014) side-effects of 64 control of 723, 980, 1046, 1060, 2286, 2448, 2456, 2755, 2774 (2014) side-effects of 64 control of 723, 980, 1046, 1060, 2286, 2448, 2456, 2755, 2774 (2014) side-effects of 64 control of 723, 980, 1046, 1060, 2286, 2448, 2456, 2755, 2774 (2014) side-effects of 64 control of 723, 980, 1046, 1060, 2286, 2448, 2456, 2755, 2774 (2014) side-effects of 64 control of 723, 980, 1046, 1060, 2286, 2448, 2456, 2755, 2774 (2014) side-effects of 64 control of 723, 980, 1046, 1060, 2286, 2448, 2456, 2755, 2774 (2014) side-effects of 64 control of 723, 980, 1046, 1060, 2286, 2448, 2456, 2755, 2774 (2014) side-effects of 64 control of 723, 980, 1046, 1060, 2286, 2448, 2456, 2755, 2774 (2014) side-effects of 64 control of 723, 980, 1046, 1060, 2286, 2448, 2456, 2755, 2774 (2014) side-effects of 64 control of 723, 980, 1046, 1060, 2286, 2448, 2456, 2755, 2774 (2014) side-effects of 64 control of 723, 980, 1046, 1060, 2286, 2448, 2456, 2755, 2774 (2014) side-effects of 64 control of 723, 980, 1046, 1060, 2286, 2448, 2456, 2755, 2774 (2014) side-effects of 64 control of 723, 980, 1046, 1060, 2286, 2448, 2456, 2755, 2774 (2014) side-effects of 64 control of 723, 980, 1046, 1060, 2286, 2448, 2456, 2755, 2774 (2014) side-effects of 64 control of 723, 980, 1046, 1060, 2286, 2448, 2456, 2755, 2774 (2014) side-effects of 723, 980, 1046, 1060, 2486, 2 | | | |
| Macronyssus diversiphis in Poland 935 on bat, in Poland 936 on bat | | | |
| in Poland 935 Macronyssus cyclaspis on bat, in Poland 935 Macronyssus dipticus on bat dipticus on bat in Poland 935 on bat dipticus on bat in Poland 935 on bat in Poland 936 on Callosciurus swinboci | | | |
| on bat, in Poland 935 Macronyssus ellystees in Notan 935 Macronyssus ellystees in Poland 935 macropis rular, Tracheomyia macropi on, in New South Wales 2860 in Romana 2860 in New South Wales 2860 in Poland 935 macropis rular, Tracheomyia macropi on, in New South Wales 2860 in Poland 935 macropis rular, Tracheomyia macropi on, in New South Wales 2860 in China 2343 in China 2343 in China 2343 on Callocicurus swinhoei, in China 2343 | | | |
| sin Poland 935 Macronsysas direcipilis no Data, in Poland 935 Macronsysas direcipilis no Data, in Poland 935 macrob, Trachomy imacropi on, Macronsysas ellipticus in Poland 935 on bat, in Poland 935 on bat, in Poland 935 on Poland 935 | on bat, in Poland 935 | in Mauritius 2436 | |
| on bat, in Poland 935 mRecrops tracker spills in Poland 935 on bat, in Poland 935 on Calloscirus swithoet, in China 243 on Calloscirus swithoet, in China 244 on Calloscirus swithoet, in China 244 on Calloscirus swithoet, in Polanda (vespa) (see Dolichovespula 243 on Calloscirus swithoet, in China 244 on Malton (see Dolichovespula 244 on Malton (selfus or Salassia) on Malton (see Dolichovespula 244 on Malton (see Dolichovespula 245 on Malton (see Dolichovespula 246 on Malton (see Dolichov | Macronyssus cyclaspis | in Mexico 3041 | Culex tarsalis, in California 1858 |
| Macronyssus dirersipilis in Poland 935 on bat, in Poland 935 on Callosciurus swithole, in China 243 batalond (city)! ((dimethoxyphosphinothologophaese (dichely)! (d | | side-effects of 64 | |
| nin Poland 935 macropis poland 935 macropis systems, Tracheomyia macropi on, in New South Wales 2860 macropis risks, Tracheomyia macropi on, in New South Wales 2860 macropis risks, Tracheomyia macropi on, in New South Wales 2860 macropis risks, Tracheomyia macropi on, in New South Wales 2860 macrostrylophora congliagenesis sp. nov, description of 2343 in China 2344 in dwellings 1604 in dwellings 1604 in West Carrian 2799 in Central America 2236 in Singapore 2236 in Singapore 2337 in Transition of vectors in 2379 in Yenne 332 in China 2343 in China 2344 in dwellings 1604 in West Carrian 234 in Vine and 2345 in C | | | |
| on bat, in Poland 935 on Exercise lightful services on Poland 935 on bat, in Poland 935 on Sall polar | | | |
| Macronyssus ellipticus in Poland 935 on bat, in Poland 935 on Callosciurus swinboot, in China 934 on Callosciurus mecicliandii, in China 934 on Callosciurus mecicliandii, in Oland 3245 on Callosciurus mecicliandii, in Ol | | | |
| in Poland 935 on bat, in Poland 935 macrops, Tracheomyia macropi on, in New South Wales 2860 Macrosstyphoto rouginageness and 19243 in China 2343 in China 2343 on Calloscirurus swinhoei, in China 2433 Macrosstyphotora euiae jiangkouensis 285, p. no., description of 2343 in China 2343 on Calloscirurus swinhoei, in China 2433 Macrosstylophora euiae jiangkouensis 285, p. no., description of 2343 in China 2343 on China 2343 on China 2343 on Calloscirurus swinhoei, in China 2434 Macrosstylophora euiae jiangkouensis 2433 in China 2343 on Calloscirurus swinhoei, in China 2434 Macrosstylophora euiae jiangkouensis 2433 in China 2343 on Calloscirurus swinhoei, in China 2434 Macrosstylophora euiae jiangkouensis 2433 in China 2343 on Calloscirurus swinhoei, in China 2434 Macrosstylophora euiae jiangkouensis 2433 in China 2343 on Calloscirurus swinhoei, in China 2434 Macrosstylophora euiae jiangkouensis 2433 in China 2343 Macrosstylophora euiae jiangkouensis 2433 in China 2343 Macrosstylophora euiae jiangkouensis 2433 in China 2343 Macrosstylophora euiae jiangkouensis 2433 in China 2443 Malavi, anchocerosis in 2452 Malavi, enchocerosis in 2452 Malavi, enchocerosis in 2452 Malavi, enchocerosis in 2452 Malavi, enchocerosis in 2452 Malavis anculatus, promote debytogenase, else Dehydrogenase, else Dehydrogenas | | | |
| on bat, in Polland 935 Macropsy rulus, Tracheomyia macropi on, in New South Wales 2860 Macrostylophora congiangensis sp., nov., description of 2343 in China 2343 on Callosciurus swinhoei, in China 2343 Macrostylophora cutae jiangkouensis ssp., nov., description of 2343 in China 2343 on Callosciurus meclellandii, in China 2343 maculata, Dolichorespula (Vespa; Vespula) maculata, Asosochoengastia maculata, Dolichorespula (Vespa; Vespula) maculata, Triatoma maculata, Seep (see Dolichovespula maculata) maculata, Espada (see Dolichovespula maculata) maculata, Espada (see Dolichovespula maculata) maculata, Solindoria maculata, Triatoma Triatom | | | |
| macrops Trackeomyia macropi on, in New South Wales 2860 Macrostylophora congigiagensis sp. nov, description of 2343 in China 2343 Macrostylophora cutiae jiangkouensis sp. nov, description of 2343 in China 2343 Macrostylophora cutiae jiangkouensis sp. nov, description of 2343 in China 2343 Macrostylophora cutiae jiangkouensis sp. nov, description of 2343 in China 2343 Macrostylophora cutiae jiangkouensis sp. nov, description of 2343 in China 2343 Macrostylophora cutiae jiangkouensis sp. nov, description of 2343 in China 2343 Macrostylophora cutiae jiangkouensis sp. nov, description of 2343 in China 2343 Macrostylophora cutiae jiangkouensis sp. nov, description of 2343 in China 2343 Macrostylophora cutiae jiangkouensis sp. nov, description of 2343 in China 2344 Macrostylophora cutiae jiangkouensis sp. nov, description of 2343 in China 2345 Macrostylophora cutiae jiangkouensis sp. nov, description of 2343 in China 2345 Macrostylophora cutiae jiangkouensis sp. nov, description of 2343 in China 2345 Macrostylophora cutiae jiangkouensis sp. nov, description of 2343 in China 2345 Macrostylophora cutiae jiangkouensis sp. nov, description of 2343 in China 2345 Macrostylophora cutiae jiangkouensis sp. nov, description of 2343 in China 2345 Macrostylophora cutiae jiangkouensis sp. nov, description of 2343 Macrostylophora cutiae jiangkouensis sp. nov, description of 2342 Macrostylophora cutiae jiangkouensis sp. nov, description of 2342 Macr | | | |
| Macross rufus, Tracheomyia macropi on, in New South Wales 2860 Macrostylophora congliangensis on Calloscirurs swinhoei, in China 2343 in China 2343 on Calloscirurs swinhoei, in China 2343 on Calloscirurs swinhoei, in China 2343 on Calloscirurs medellandii, in China 2343 on Calloscirurs witholi medilandii in Oli Calloscirus medellandii, in China 2343 on Calloscirurs witholi medilandii in Oli Calloscirus witholi medilandii in Oli Oli in Macroma 2443 on Calloscirus witholi medilandii in Oli Salabacensi 2789 on Calloscirus in Ioss, 2378, 3034, 3169 in water containers 320 on man 542 antipolita in 1085, 2378, 3034, 3169 in water containers 320 on man 542 antipolita in 1085, 2378, 3034, 3169 in water containers 320 on man 542 antipolita in 1085, 2378, 3034, 3169 in water containers 320 on man 542 antipolita in 1085, 2378, 3034, 3169 in water containers 320 on man 542 antipolita in 1085, 2378, 3034, 3169 in water containers 320 on man 542 antipolita in 1085, 2378, 3034, 3169 in water containers 320 on man 542 antipolita in 1085, 2378, 3034, 3169 in water containers 320 on man 542 antipolita in 1085, 2378, 3034, 3169 in water containers 320 on man 542 antipolita in 363 in water water antipo | | | |
| in New South Wales 2860 Macrostylophora conglangensis sp. nov., description of 2343 in China 2343 mcrostylophora cutine jiangkouensis ssp. nov., description of 2343 on Callosciurus swinknoei, in China Macrostylophora cutine jiangkouensis ssp. nov., description of 2343 on Callosciurus mecleilandii, in China 2343 macatas, Latrodectus maculata, Ascoschoengastia maculata, Ascoschoengastia maculata, Ascoschoengastia maculata, Hippobosca (see H. variegata) maculata, Triatoma maculata, Triatoma maculatas, Euplah (see Dolichovespula maculatas, Supalin (see Dolichovespula maculatus, Campelliandii, Triatoma maculatus, Campelliandii, Triatoma maculatus, Campelliandii, Triatoma maculatus, Maculatus, Ascoschoengastia maculatus, Campelliandii, Triatoma maculatus, Maculatus, Ascoschoengastia maculatus, Sometrus maculatus, Sometru | | | |
| Macrostylophora conglatagensis sp. nov., description of 2343 in China 23 | | | |
| sp. nov., description of 2343 in China 2343 on Callosciurus swinhoei, in China 2343 on Callosciurus swinhoei, in China 2343 in China 2343 on | | | |
| in China 2343 Macrostylophora cuitae jlangkouensis ssp. nov, description of 2343 in China 2344 in China 2344 in Anaculata, Delichovespula declaration in 1955, 2378, 3034, 3169 in dwellings 1564 A. atroparvus 1242 A. atroparvus 1242 A. balabacensis 2789 A. balabacensis 2789 A. philippinensis 2426 A. stephensi 1909, 2757 Argas persicus in fowl houses 640 on fowl 640, 1177 C. pipens 3074 in urban areas 146 Culicodes belkini 1998 In water containers 1320 on man 152 Cultex acquitation in 363 A. maculata 34 A. terphensi 1909, 2757 Argas persicus in fowl houses 640 on fowl 640, 1177 C. pipens 3074 in urban areas 146 Culicodes belkini 1998 In water containers 1320 on man 152 Cultex acquitation in 1950 Cultex gelidus 2771 C. pipens 3074 in urban areas 146 Culicodes belkini 1998 In caulation, Malphylide in 1950 In Cultex quinquefasciatus in, on man 152 I | | | |
| on Callosciurus swinhoci, in China 2343 Macrostylophae cuiae jiangkouensis ssp. nov., description of 2343 in China 2343 on Callosciurus meclellandii, in China 2343 on Callosciurus meclelandii, in China 2343 on Callosciurus in Collosciurus in Collosciurus in alala 1342 on maculatus deed varie callosciurus agama 242 on maculatus deed varie containes 1320 on man 342 on maculatus deed varie containes 1320 on man 342 on maculatus deed varie containes 1320 on man 342 on maculatus deed varie containes 1320 on man 342 on maculatus deed varie containes 1320 on maculatus deed varie containes | | | |
| Macrostylophora cuiae jlangkouensis sps. nov, description of 2343 in China 2343 on Calloscurus meclellandii, in China 2343 on Calloscurus meclellandii, in China 2343 maculata, Satrodectus maculata, Satrodectus maculata, Satrodectus maculata, Satrodectus maculata, Phipobosca (see H. variegata) maculata, Hipobosca (see H. variegata) maculata, Triatoma maculata, Triatoma maculata, Triatoma maculata, Triatoma maculata, Vespula (see Dolichovespula maculata) maculata, Satrodectus maculata, Triatoma maculata, Culicoides maculata, Culicoides maculata, Culicoides maculatus, Collectiones and Collectiones and Collectiones (Satrodecomis, Tabanus maculatus, Sometrus sometrus, Sometrus maculatus, Sometrus sometrus, Sometrus sometrus, Sometrus sonal sometrus, Sometrus sometrus, Sometrus sonal sometrus, Sometru | | | |
| in China 2343 | | | |
| analtate) malate) malate) malate) malates, 2378, 3034, 3169 maculata, Latrodectus maculata, Dolichovespula (Vespa; Vespula) maculata, Spiniphora maculata, Spiniphora maculata, Vespa (see Dolichovespula maculata, Vespa (see Dolichovespula maculata, Vespula (see Dolichovespula maculata, Spiniphora maculata, Vespula (see Dolichovespula maculata, Culicoides maculata, Sometrus maculatas, Sometrus maculatas, Sometrus maculatas, Sometrus maculatas, Sometrus maculatas, Sometrus maculatas, Spiniturnix maculatias, Spinitur | ssp. nov., description of 2343 | WHO work on 1505 | in house dust, in Colombia 3225 |
| maculata, Latrodectus maculata, Ascoschoengastia maculata, Bilipobosca (see H. variegata) maculata, Britipobosca (see H. variegata) maculata, Triatoma maculata, Pespula (see Dolichovespula maculata, Vespula (see Dolichovespula maculata, Nespula (see Dolichovespula maculata, Nespula (see Dolichovespula maculata, Sepula (see Dolichovespula maculata, Sumaculata, Suma | | Malate dehydrogenase (see Dehydrogenase, | |
| maculata, Latrodectus maculata, Dolichovespula (Vespa; Vespula) maculata, Dolichovespula (vespa (vespata) maculata, Spiniphora maculata, Spiniphora maculata, Spiniphora maculata, Vespa (see Dolichovespula maculata, Vespa (see Dolichovespula maculata, Vespala (see Dolichovespula maculata, Mapholess and Polichovespula maculatum, Amblyomma maculatum, Amblyomma maculatum, Amblyomma maculatum, Amblyomma maculatus, Colicoides maculatus, Laccotrephes maculativa, Laccotrephes maculatus, Laccotrephes maculativa, Laccotrephes maculatus, | | | |
| maculata, Ascoschoengastia maculata, Hippobosca (see H. variegata) maculata, Triatoma maculata, Triatoma maculata, Triatoma maculata, Vespula (see Dolichovespula maculata, Vespula (see Dolichovespula maculata, Vespula (see Dolichovespula maculata, Namblyomma maculata, Ascoschoengastia maculata, Triatoma maculata, Triatoma maculata, Vespula (see Dolichovespula maculata) maculata, Anopheles maculata, Anopheles maculata, Sumerus maculata, Sum | | | |
| maculata, Dolichovespula (Vespa; Vespula) maculata, Spiniphora (se H. variegata)Aedes aegypti angulata, Spiniphora (se H. variegata)Aedes aegypti in Ampheles spon in Ampheles spon in Golichovespula maculata, Vespa (see Dolichovespula maculata) maculata, Vespale (see Dolichovespula maculata) maculata, Nanpheles maculata, Ampheles maculata, Manpheles maculata, Manpheles maculata, Manpheles maculata, Culicoides maculata, Separation maculata, | | | |
| maculata, Hippobosca (see H. Variegala) maculata, Printoma maculata, Triatoma maculata, Triatoma maculata, Printoma maculata, Vespula (see Dolichovespula maculatum, Amblyomma maculatum, Amblyomma maculatum, Amblyomma maculatum, Amblyomma maculatus, Culicoides maculatus, Culicoides maculatus, Culicoides maculatus, Sometrus maculatus, Isometrus maculatus, Isometrus maculatus, Isometrus maculatus, Sometrus maculatus, Isometrus maculatus, Sometrus maculatus, Culicoides Culcoides belkini 1098 Culex gelidus 2771 C. pipens 3074 murban areas 146 Culicoides belkini 1098 Cultivoides orientalis in 3108 Culicoides orientalis in 3108 Culicoides orientalis in 3118 Maemaloba una terus Telmatoscopous Telmatoscopous Telmatoscopous Telmatoscopous Telmato | | | |
| maculata, Spiniphora maculata, Spiniphora maculata, Vespa (see Dolichovespula maculata) Maculata, Vespa (see Dolichovespula maculata) Maculata, An bilippinensis 2426 Maculata, Anopheles maculatan, Amblyomma maculatan, Speriscus maculatan, Speriscus maculatan, Speriscus maculatan, Speriscus maculatan, Amblyomma in fowl houses 640 on fowl 640, 1177 Blattaria 3108 Culex gelidus 2771 Culex gelidus 2771 Culex gelidus 2771 Culciodes orientalis in 3108 Musca domestica Tombiculidae in, on small mammals 3231 Malio Musca domestica In catle sheds 2515 In dwellings 1564 Mansonia spp, in dwellings 1564 Menacarinius stramineus, on fowl 1532, 2331 Menopon gallinae, on fowl 1532, 2331 Menopon gallinae, on fowl | | | |
| maculata, Triatoma maculata, Vespula (see Dolichovespula maculata) maculata Vespula (see Dolichovespula maculata) maculata, Vespula (see Dolichovespula maculata) maculatus, Anopheles maculatus, Anopheles maculatus, Anopheles maculatus, Anopheles maculatus, Ecotrephes maculatus, Ecot | | | |
| maculatai) | | | |
| maculata) maculata, Vespula (see Dolichovespula maculatum, Amblyomma maculatum, Amblyomma maculatum, Amblyomma maculatum, Amblyomma maculatum, Amblyomma maculatus, Culicoides maculatus, Culicoides maculatus, Everpetes m | | | |
| maculata, Vespula (see Dolichovespula maculata) maculatum, Amblyomma maculatum, Amblyomma maculatum, Amblyomma maculatum, Culicoides maculatus, Culicoides maculatus, Sometrus maculatus, Sometrus maculatus, Sametrus maculatus, Sametrus maculatus, Laccotrephes maculatus, Laccotrephes maculifons, Vespula maculitons, Vespula maculitons, Vespula maculitons, Vespula maculitons, Vespula mac | | | |
| maculatun, Amblyomma maculatus, Anopheles maculatus, Culicoides maculatus, Culicoides maculatus, Culicoides maculatus, Dermestes maculatus, Dermestes maculatus, Executrephes | | | |
| maculatus, Anopheles maculatus, Culicoides maculatus, Dermestes maculatus, Dermestes maculatus, Dermestes maculatus, Laccotrephes maculatus, Laccotrephes maculatus, Laccotrephes maculifernis, Tabanus maculifernis, Tabanus maculifernis, Anopheles maculatus, Laccotrephes culcus egidius 2771 C. pipiens 3074 culcus egidius 2771 C. pipiens 3074 musa areas 146 Culicoides belkini 1989 C. restuans, in urban areas 146 Culicoides belkini 1999 C. restuans, in urban areas 146 Culicoides belkini 1998 Manocalitus, Sphin 2888 Manophog agaliane, 1909 C. restuans, in urban areas 146 Culicoides belkini 1998 Manomal 1909 C. restuans, in urban areas 146 Culicoides belkini 1998 Manocalitus 891, 1909 C. restuans, in urban areas 146 Culicoides belkini 1998 Culicudes belkini 1998 Manomal 1504 Manomal 1504 Manomal 1505 Manomal 1508 Manonia spp., in dwellings 1564 Menopon gallinae, on fowl 1532, 2333 Menopon gallinae, on fowl 1698 on nam 756, 1007, 1273 Periplaneta americana, in dwellings 1698 Main Drain vi | maculata) | | Culex quinquefasciatus in, in water |
| maculatus, Culicoides maculatus, Dermestes maculatus, Isometrus maculifrons, Vespula maculifrons, Vespula maculifrons, Vespula maculifrons, Vespula maculifrons, Vespula maculifrons, Vespula maculity, Isometrus maculifrons, Vespula maculifr | | | |
| maculatus, Dermestes maculatus, Isometrus maculatus, Laccotrephes maculatus, Laccotrephes maculifornis, Tabanus maculifornis, Vespula maculifornis, Vespula maculifornis, Vespula maculifornis, Vespula maculifornis, Vespula maculifornis, Vespula maculifornis, Anopheles maculatus, Spinturnix maederae, Leucophaea maculatus, Spinturnix maenas, Carcinus Magirol (see DDT) Magnesium ion (Mg²*) in Acdes aegypti, dependence of formyltetrahydrofolate synthetase activity on 1051 in Culex quinquefasciatus, dependence of choline kinase activity on 342 in Phormia regina, effects on sugar receptors of 2847 magnificus, Paradoxopsyllus magnus, Argas Main Drain virus, in, Aedes dorsalis, replication of 1578 maindronii, PeranusBlattella germanica (Culex gliidus 2771 C. prestuans, in urban areas Haematobia irritans 1937 Mansonia spp., in dwellings 1698 Panstrongylus megistus 2336 Pediculus capitis 1008 on man 756, 1007, 1273 Periplaneta americana, in dwellings 1698 Periplaneta americana, in dwellings 1698Haematobia irritans 1937 Mansonia spp., in dwellings 1694 Pediculus capitis 1008 on man 756, 1007, 1273 Periplaneta americana, in dwellings 1698Maliophaga evolutionary adaptations in 755 in New Jersey 28 on Columbiformes, in Spain 1480 on Culex 1290 on domestica nimals, diagnosing of, book 977 on game, book 2261 on investock, in Nigeria 2045, 2046 on mammals, in Texas 1530 wertebrate associations of, evolution of 2294Maino Pain virus, in, Aedes dorsalis, replication of 1578 maindronii, PeranusPeriplaneta americana, in dwellings 1698 Provis, on cattle 1452 Triatoma infestana 2337 vith oil 3074 with oil 3074 in Apis mellifera, toxicity of 163 in Asian buffalo2915 Mammal burrows, Culic | | | |
| maculatus, Isometrus maculatus, Laccotrephes maculifrons, Vespula maculicalifrons, Vespula maculicalifr | | Blattaria 316 | Cydistomyia spp. in 2888 |
| macultus, Laccotrephes maculiforns, Vespula maculifons, vespula m | | Biattelia germanica 1242 | Muses demonstrating 2052 |
| maculifornis, Tabanus maculifrons, Vespula maculipennis, Anopheles maderiae, Leucophaea maculipennis, Anopheles maderiae, Leucophaea maculipennis maculipennis maculipennis maculipennis, Anopheles maculipennis maculipennis maculipennis, Anopheles maculipennis maculipennis, Anopheles maculipennis maculipennis maculipennis maculipennis, Anopheles maculipennis maculipen | | | |
| maculifrons, Vespula maculipennis, Anopheles maderae, Leucophaea Magirol (see DDT) Magnesium in (Mg²+) in Aedes aegypti, dependence of formylitetrahydrofolate synthetase activity on 1051 in Culex quinquefasciatus, dependence of formylitetrahydrofolate synthetase activity on 1051 in Culex quinquefasciatus, dependence of formylitetrahydrofolate synthetase activity on 342 in Phormia regina, effects on sugar receptors of 2847 magnifica, Wohlfahrtia magnificus, Paradoxopsyllus magnific | | | |
| maculipennis, Anopheles maderae, LeucophaeaC. quinquefasciatus C. restuans, in urban areas Dipinturnix Magnesium ion (Mg²+1) in Acdes agypti, dependence of formyltetrahydrofolate synthetase activity on 1051 in Culca quinquefasciatus, dependence of choline kinase activity on 342 in Phormia regina, effects on sugar receptors of 2847 magnifica, Wohlfabrtia magnifica, Wohlfabrtia magnifica, Paradoxopsyllus magnifica, Peranus Main Drain virus, in, Aedes dorsalis, replication of 1578 maindronii, Peranus MaineC. quinquefasciatus soll, 1909 Haematobia irritans Menagonis, on fowl 2333 Menagon gallinae, on fowl 2333 Menagon gallinae, on fowl 1532 Musca domestica in cattle sheds 2515 in dwellings 1698 Panstrongylus megistus 2336 Pediculus capitis 1008 on man 756, 1007, 1273 Periplaneta americana, in dwellings 1698 Persopres cuniculi, on goat 2915 P. ovis, on cattle 1452 Prosimulium mixtum in 1365 Simuliidae in 853, 1819 Simulium penobscotensis in 2457 S. venustum in 1365 Maize (Zea mays)3217 Malion Cyclops spp. in, nematodes in 1224 Glossina palpalis in 1381, 1382, 2834 onchoecreiasis control in 1109, 1110 Phlebotominae in 3116 Mallophaga evolutionary adaptations in 755 in New Jersey 28 on Columbiformes, in Spain 1480 on Culex 1290 on domestic animals, diagnosing of, book 977 on game, book 2261 on livestock, in Nigeria 2045, 2046 on mammals, in Texas 1530 vertebrate associations of, evolution of 2294Maltopse Haematobia irritans Menacanthus stramineus, on fowl 1532 Menopon gallinae, on fowl 1532 Perdiculus capitis 1008 on man 756, 1007, 1273 Prosimulium mixt | | | |
| maderae, LeucophaeaC. restuans, in urban areas 146Malimaedai, SpinturnixCulicoides belkini1098Haematobia irritans1937Magirol (see DDT)Lipeurus caponis, on fowl on (Mg²+)2333Manonia spp., in dwellings1564Magnesium ion (Mg²+)Manonia spp., in dwellings1564Mallophagain Aedes aegypti, dependence of formyltetrahydrofolate synthetase activity on 1051Menopon gallinae, on fowl 1532, 23331532Mallophagain Culex quinquefasciatus, dependence of choline kinase activity on 342 in Phormia regina, effects on sugar receptors of 2847Menopon gallinae, on fowl 15321532Menopon gallinae, on fowl 1532magnificus, Paradoxopsyllus magnificus, Paradoxopsyllus magnus, ArgasPediculus capitis 1008 on man 756, 1007, 1273290on domestic animals, diagnosing of, book 977Main Drain virus, in, Aedes dorsalis, replication of 1578Periplaneta americana, in dwellings 1698Periplaneta americana, in dwellings 1698Maltose (see D-Glucose, 4-O-α-D-glucopyranosyl-)Maine aquatic insects in 1552Prosimulium mixtum in 1365Prosimulium mixtum in 1365Prosimulium penobscotensis in 2457Maps mellifera, toxicity of 163Maltose (see D-Glucose, 4-O-α-D-glucopyranosyl-)Maine Grain virus, in Aedes dorsalis, replication of 1578Prosimulium mixtum in 1365Maine Grain virus, in Aedes dorsalis, replication of 1578Maltose (see D-Glucose, 4-O-α-D-glucopyranosyl-)Maine Grain virus, in Aedes dorsalis in 1361Maltose (see D-Glucose, 4-O-α-D-glucopyranosyl-)Maltose (see D-Glucose, 4-O-α-D-glucopyranosyl-)Maine Grain virus, in Aedes dorsalis in 1552Maltose (se | | | |
| maedai, Spinturnix maenas, CarcinusCulicoides belkini1098 Haematobia irritansCyclops spp. in, nematodes in1224 Glossina palpalis inMagirol (see DDT)Lipeurus caponis, on fowl Lipeurus caponis, on fowl in Aedes aegypti, dependence of formyltetrahydrofolate synthetase activity on 1051 in Culex quinquefasciatus, dependence of choline kinase activity on in Phormia regina, effects on sugar receptors of 2847Menopon gallinae, on fowl 1532, 2333 Musca domestica in cattle sheds in dwellings in dwellings in dwellings in dwellings 1698Mallophaga evolutionary adaptations in on Columbiformes, in Spain 977 on game, book vertebrate associations of, evolution of 2294magnifica, Wohlfahrtia magnificas, Paradoxopsyllus magnus, ArgasPanstrongylus megistus Periplaneta americana, in dwellings 16982336 Periplaneta americana, in dwellings 1698on man 756, 1007, 1273 Periplaneta americana, in dwellings 1698on man 756, 1007, 1273 Periplaneta americana, in dwellings 1698on mammals, in Texas 1530 Wertebrate associations of, evolution of 2294Maine aquatic insects in Simulium mixtum in Simulium penobscotensis in S. venustum in 1365P. ovis, on cattle 1452 Triatoma infestans 13074 S. venustum in 1365P. ovis, on cattle 1452 Triatoma infestans 13074 130 | | | |
| maenas, CarcinusHaematobia irritans1937 Lipeurus caponis, on fowlGlossina palpalis in1381, 1382, 2834 onchocerciasis control inMagnesium ion (Mg²+) in Aedes aegypti, dependence of formyltetrahydrofolate synthetase activity on 1051 in Culex quinquefasciatus, dependence of choline kinase activity on 342 in Phormia regina, effects on sugar receptors of 2847 magnificus, ParadoxopsyllusMenopon gallinae, on fowl 1532, 2333 Menopon gallinae, on fowl in cattle sheds 2515 in dwellings 1698 Panstrongylus megistus on man 756, 1007, 1273 Pediculus capitis on man 756, 1007, 1273 Pediculus capitis 1698 Pesto of livestock magnificus, ParadoxopsyllusPediculus capitis on man 756, 1007, 1273 Pediculus capitis pests of livestock 2281 Phlebotominae in 3116Mallophaga evolutionary adaptations in 755 in New Jersey 28 on Collumbiformes, in Spain 1480 on Culex 1290 on domestic animals, diagnosing of, book 977 on game, book 2261 on livestock, in Nigeria 2045, 2046 on mammals, in Texas 1530 vertebrate associations of, evolution of 2294Maine aquatic insects in 1552 Prosimulium mixtum in 1365 Simuliidae in 853, 1819 Simulium penobscotensis in 2457 S. venustum in 1365Proproptes cuniculi, on goat Prosimulium penobscotensis in 2457 S. venustum in 1365Altose (see D-Glucose, 4-O-α-D- glucopyranosyl-) Mammals arthropod parasites of in Neyal 1500 in Nova Scotia 1816 Bacillus sphaericus in, not pathogenic | | | Cyclops spp. in, nematodes in 1224 |
| Magnesium ion (Mg²+) in Aedes aegypti, dependence of formyltetrahydrofolate synthetase activity on 1051 in Culex quinquefasciatus, dependence of choline kinase activity on 342 in Phormia regina, effects on sugar receptors of 2847 magnificus, Paradoxopsyllus magnus, ArgasMenopon gallinae, on fowl in dwellings 1532 Musca domestica in cattle sheds 2515 in dwellings 1698 Panstrongylus megistus 2336 Periplaneta americana, in dwellings 1698 Periplaneta americana, in dwellings 1698 Persoroptes cuniculi, on goat Prosimulium mixtum in 1365 Simulium penobscotensis in 2457 S. venustum in 1365 S. venustum in 1365 S. venustum in 1365 Maize (Zea mays)Panstrongylus megistus 2336 Panstrongylus megistus 2336 Periplaneta americana, in dwellings 1698 Periplaneta americana, in dwellings 1698 Periplaneta americana, in dwellings 1698 Periplaneta americana, in dwellings 1698 Prosimulations of Siow-release 2336, 2337 with oil 3074 S. venustum in 1365 Simulium penobscotensis in 2457 S. venustum in 1365 Maize (Zea mays)Phlebotomus appatasi 1532 Phelebotomus papatasi 1698 Prosimulations of Siow-release 2336, 2337 with oil 3074 S. venustum in 1365 In Asian buffaloMallophaga evolutionary adaptations in 755 in New Jersey 28 on Columbiformes, in Spain 1480 on domestic and columbiformes, in Spain 1480 on domestica in New Jersey 28 on Columbiformes, in Spain 1480 on domestica no livestock, in Nigeria 2045, 2046 on livestock, in Nigeria 2045, | maenas, Carcinus | Haematobia irritans 1937 | Glossina palpalis in 1381, 1382, 2834 |
| ion (Mg ²⁺) in Aedes aegypti, dependence of formyltetrahydrofolate synthetase activity on 1051 in Culex quinquefasciatus, dependence of choline kinase activity on 342 in Phormia regina, effects on sugar receptors of 2847 magnificus, Paradoxopsyllus magnificus, Paradoxopsyllus magnificus, Paranus Main Drain virus, in, Aedes dorsalis, replication of 1578 maindronii, Peranus Maine aquatic insects in 1552 Prosimulium mixtum in 1365 Simuliidae in 853, 1819 Simuliim penobscotensis in 2457 S. venustum in 1365 Maize (Zea mays) Menacanthus stramineus, on fowl 1532, 2333 Menopon gallinae, on fowl 1532 in New Jersey 28 on Columbiformes, in Spain 1480 on Culex 1290 on domestic animals, diagnosing of, book on Mallophaga evolutionary adaptations in 755 in New Jersey 28 on Columbiformes, in Spain 1480 on Culex 1290 on domestic animals, diagnosing of, book 167 on game, book 2261 on livestock, in Nigeria 2045, 2046 on livestock, in Nigeria 2045, 2046 on marn 756, 1007, 1273 Periplaneta americana, in dwellings 1698 Nailophaga evolutionary adaptations in 755 in New Jersey 28 on Columbiformes, in Spain 1480 on Culex 1290 on domestic animals, diagnosing of, book 1730 Periplaneta americana, in dwellings 1698 Periplaneta americana, in dwellings 1698 Nailophaga evolutionary adaptations in 755 in New Jersey 28 on Columbiformes, in Spain 1480 on Culex 1290 on domestica on livestock, in Nigeria 2994 Maltose (see D-Glucose, 4-O-α-D- | Magirol (see DDT) | Lipeurus caponis, on fowl 2333 | onchocerciasis control in 1109, 1110 |
| in Aedes aegypti, dependence of formyltetrahydrofolate synthetase activity on 1051 in Culex quinquefasciatus, dependence of choline kinase activity on 342 in cattle sheds 2515 in cattle sheds 2515 in Culex quinquefasciatus, dependence of choline kinase activity on 342 in dwellings 1698 magnifica, Wohlfahrtia pagnificas, Paradoxopsyllus pagnus, Argas Main Drain virus, in, Aedes dorsalis, replication of 1578 pasindronii, Peranus Maine aquatic insects in 1552 prosimulium mixtum in 1365 Simuliidae in 853, 1819 Simuliidae in 853, 1819 Sieuliidae in 853, 1819 Sieuliidae in 853, 1819 Sieuliidae in 853, 1819 Menopon gallinae, on fowl 1532 In New Jersey 28 on Columbiformes, in Spain 1480 on Culex 1290 on domestic animals, diagnosing of, book 977 on game, book 2261 on livestock, in Nigeria 2045, 2046 on mammals 558 Psoroptes cuniculi, on goat 2915 P. ovis, on cattle 1452 Triatoma infestans 2337 formulations of slow-release 2336, 2337 with oil 3074 S. venustum in 1365 Maize (Zea mays) Manopon gallinae, on fowl 1532 In New Jersey 28 on Columbiformes, in Spain 1480 on Culex 1290 on domestic animals, diagnosing of, book 977 on game, book 2261 on livestock, in Nigeria 2045, 2046 on mammals 558 Psoroptes cuniculi, on goat 2915 P. ovis, on cattle 1452 Triatoma infestans 2337 Maltose (see D-Glucose, 4-O-\alpha-O-\alpha-D-glucose, 4-O-\alpha-D-glucose, 4-O | | | |
| formyltetrahydrofolate synthetase activity on 1051 Musca domestica Musca domestica Musca domestica Musca domestica in Culex quinquefasciatus, dependence of choline kinase activity on 342 in Phormia regina, effects on sugar receptors of 2847 Panstrongylus megistus 2336 magnifica, Wohlfahrtia magnificus, Paradoxopsyllus magnus, Argas Main Drain virus, in, Aedes dorsalis, replication of 1578 Panstrongus papatasi 558 maindronii, Peranus Maine aquatic insects in 1552 Prosimulium mixtum in 1365 Simulium penobscotensis in 2457 S. venustum in 1365 Maize (Zea mays) Menopon gallinae, on fowl 1532 Musca domestica Musca domestica in cattle sheds 2515 on Culex 1290 on domestic animals, diagnosing of, book 977 on game, book 2261 on livestock, in Nigeria 2045, 2046 on mammals, in Texas 1530 vertebrate associations of, evolution of 2294 Maltose (see D-Glucose, 4-O-α-D- glucopyranosyl-) Mammal burrows, Culicidae in, in Saskatchewan 152 Mammals arthropod parasites of in New Jersey 28 on Columbiformes, in Spain 1480 on Culex 1290 on domestic animals, diagnosing of, book 977 on game, book 2261 on livestock, in Nigeria 2045, 2046 on mammals, in Texas 1530 vertebrate associations of, evolution of 2294 Maltose (see D-Glucose, 4-O-α-D- glucopyranosyl-) Mammal burrows, Culicidae in, in Saskatchewan 152 Mammals arthropod parasites of in New Jersey 28 on Columbiformes, in Spain 1480 on Culex 1290 on domestic animals, diagnosing of, book 977 on game, book 2261 on livestock, in Nigeria 2045, 2046 on mammals, in Texas 1530 vertebrate associations of, evolution of 2294 Maltose (see D-Glucose, 4-O-α-D- glucopyranosyl-) Mammal burrows, Culicidae in, in Saskatchewan 152 Mammals arthropod parasites of in New Jersey on Culex 1290 on domestic animals, diagnosing of, book 977 on game, book 2261 on livestock, in Nigeria 2045, 2046 on mammals, in Texas 1530 vertebrate associations of, evolution of 2294 Maltose (see D-Glucose, 4-O-α-D- glucopyranosyl-) in Nepal 1500 in Nepal 1500 in Nepal 1500 in New Jersey 1480 on Culex 1290 on domestica mimals, di | | | |
| activity on 1051 in Culex quinquefasciatus, dependence of choline kinase activity on 342 in Phormia regina, effects on sugar receptors of 2847 magnificas, Wohlfahrtia magnificus, Paradoxopsyllus magnus, Argas Main Drain virus, in, Aedes dorsalis, replication of 1578 maindronii, Peranus Maine aquatic insects in 1552 Prosimulium mixtum in 1365 Simulium penobscotensis in 2457 S. venustum in 1365 Maize (Zea mays) Multiplication of 1578 Multiplic | | | |
| in Culex quinquefasciatus, dependence of choline kinase activity on 342 in Phormia regina, effects on sugar receptors of 2847 magnifica, Wohlfahrtia on man 756, 1007, 1273 magnificus, Paradoxopsyllus Periplaneta americana, in dwellings 1698 Main Drain virus, in, Aedes dorsalis, replication of 1578 maindronii, Peranus Psoroptes cuniculi, on goat 2915 maindronii, Peranus Psoroptes cuniculi, on goat 2915 Maine aquatic insects in 1552 Prosimulium mixtum in 1365 Simuliidae in 853, 1819 Simulium penobscotensis in 2457 S. venustum in 1365 Maize (Zea mays) in cattle sheds 2515 in dwellings 1698 Panstrongylus megistus 2336 Pediculus capitis 1008 on domestic animals, diagnosing of, book 977 on game, book 2261 on livestock, in Nigeria 2045, 2046 on in vestock, in Nigeria 2045, 2046 on mammals, in Texas 1530 vertebrate associations of, evolution of 2294 Maltose (see D-Glucose, 4-O-\alpha-O-\Defausions of glucopyranosyl-) Mammal burrows, Culicidae in, in Saskatchewan 152 Mammals arthropod parasites of in Nepal 1500 S. venustum in 1365 in Apis melifera, toxicity of 163 in Asian buffalo Bacillus sphaericus in, not pathogenic | | | |
| of choline kinase activity on 342 in dwellings 1698 on domestic animals, diagnosing of, book in Phormia regina, effects on sugar receptors of 2847 Pediculus capitis 1008 on man 756, 1007, 1273 on game, book 2261 on livestock, in Nigeria 2045, 2046 on man 756, 1007, 1273 on game, book 2261 on livestock, in Nigeria 2045, 2046 on mammals, in Texas 1530 vertebrate associations of, evolution of 2294 pests of livestock 2281 phlebotomus papatasi 558 pests of livestock 2281 pests of livestock 2281 phlebotomus papatasi 558 pests of livestock 2281 pests of livestock 2281 phlebotomus papatasi 558 pests of livestock 2281 phlebotomus papatasi 558 pests of livestock 2281 pests of | | | |
| in Phormia regina, effects on sugar receptors of 2847 Pediculus capitis 1008 on man 756, 1007, 1273 on game, book 2261 on livestock, in Nigeria 2045, 2046 on magnificus, Paradoxopsyllus Periplaneta americana, in dwellings 1698 replication of 1578 Phlebotomus papatasi 558 pests of livestock 2281 Phlebotomus papatasi 558 pesto flivestock 2281 phlebotomu | | | |
| receptors of 2847 magnificas, Wohlfahrtia magnificas, Paradoxopsyllus magnificus, Paradoxopsyllus magnus, Argas Main Drain virus, in, Aedes dorsalis, replication of 1578 maindronii, Peranus Maine aquatic insects in 1552 Prosimulium mixtum in 1365 Simuliidae in 853, 1819 Simuliim penobscotensis in 2457 S. venustum in 1365 Maize (Zea mays) Pediculus capitis 1008 on game, book 2261 on livestock, in Nigeria 2045, 2046 on investock, in Nigeria 2045, 2046 on same, book 2261 on livestock, in Nigeria 2045, 2046 on mamn fox an investan 2045, 2046 on game, book 2261 on livestock, in Nigeria 2045, 2046 on same, | | | |
| magnifica, Wohlfahrtia magnificus, Paradoxopsyllus magnus, Argas Main Drain virus, in, Aedes dorsalis, replication of 1578 maindronii, Peranus Maine aquatic insects in 1552 Prosimulium mixtum in 1365 Simuliidae in 853, 1819 Simulium penobscotensis in 2457 S. venustum in 1365 Maize (Zea mays) on livestock, in Nigeria 2045, 2046 on mammals, in Texas 1530 vertebrate associations of, evolution of 2294 Maltose (see D-Glucose, 4-O-\alpha-D-glucopyranosyl-) Maltose (see D-Glucose, 4-O-\alpha-D-glucopyranosyl-) Mammal burrows, Culicidae in, in Saskatchewan 152 Mammals arthropod parasites of in Nepal 1500 in Nepal 1500 in Nova Scotia 1816 Bacillus sphaericus in, not pathogenic | | | |
| magnificus, ParadoxopsyllusPeriplaneta americana, in dwellingson mammals, in Texas 1530magnus, Argas1698vertebrate associations of, evolution ofMain Drain virus, in, Aedes dorsalis, replication of 1578pests of livestock 22812294maindronii, PeranusPsoroptes cuniculi, on goat 2915Maltose (see D-Glucose, 4-O-α-D-glucopyranosyl-)Maine aquatic insects in 1552P. ovis, on cattle 1452Mammal burrows, Culicidae in, in Saskatchewan 152Prosimulium mixtum in 1365formulations of Simuliidae in 853, 1819slow-release 2336, 2337Mammals arthropod parasites of in Nepal 1500S. venustum in 1365in Apis mellifera, toxicity of 163in Nova Scotia 1816Maize (Zea mays)not pathogenic | | on man 756, 1007, 1273 | |
| Main Drain virus, in, Aedes dorsalis, replication of 1578pests of livestock 2281 Phlebotomus papatasi 558 Psoroptes cuniculi, on goat P. ovis, on cattle 1452 Aquatic insects in 1552 Prosimulium mixtum in 1365 Simuliidae in 853, 1819 S. venustum in 1365pests of livestock 2281 Psoroptes cuniculi, on goat P. ovis, on cattle 1452 Triatoma infestans 2337 formulations of Slow-release 2336, 2337 with oil 3074 S. venustum in 1365Mammal burrows, Culicidae in, in Saskatchewan 152Mammals MammalsMammals arthropod parasites of in Nepal 1500 in Nova Scotia 1816Maize (Zea mays)Maize (Zea mays)Bacillus sphaericus in, not pathogenic | | | on mammals, in Texas 1530 |
| replication of 1578 maindronii, Peranus Psoroptes cuniculi, on goat Personoptes cuniculi, | | | |
| maindronii, PeranusPsoroptes cuniculi, on goat aquatic insects in 1552Psoroptes cuniculi, on goat aquatic insects in 15522915glucopyranosyl-)Prosimulium mixtum in 1365Triatoma infestans 2337Saskatchewan 152Prosimulium mixtum in 1365formulations of Simuliidae in 853, 1819slow-release 2336, 2337MammalsSimulium penobscotensis in 2457with oil 3074arthropod parasites of in Nepal 1500S. venustum in 1365in Apis mellifera, toxicity of in Asian buffaloin Nova Scotia 1816Maize (Zea mays)in Asian buffaloBacillus sphaericus in, not pathogenic | | | |
| MaineP. ovis, on cattle 1452Mammal burrows, Culicidae in, in aquatic insects in 1552Prosimulium mixtum in 1365Triatoma infestans 2337Saskatchewan 152Simuliidae in 853, 1819slow-release 2336, 2337Mammals arthropod parasites of in Nepal 1500S. venustum in 1365with oil 3074in Nepal 1500Maize (Zea mays)in Apis mellifera, toxicity of 163in Nepal 1500Bacillus sphaericus in, not pathogenic | | | |
| aquatic insects in 1552 Prosimulium mixtum in 1365 Simuliidae in 853, 1819 Simulium penobscotensis in 2457 S. venustum in 1365 Maize (Zea mays) Triatoma infestans 2337 Saskatchewan 152 Mammals arthropod parasites of in Nepal 1500 in Nepal 1500 in Nova Scotia 1816 Bacillus sphaericus in, not pathogenic | | | |
| Prosimulium mixtum in 1365 formulations of Simuliidae in 853, 1819 slow-release 2336, 2337 arthropod parasites of in Nepal 1500 in Nepul 1500 in Nova Scotia 1816 Maize (Zea mays) in Asian buffalo formulations of Mammals arthropod parasites of in Nepal 1500 in Nepal 1500 in Nova Scotia 1816 Bacillus sphaericus in, not pathogenic | | | |
| Simuliidae in 853, 1819 slow-release 2336, 2337 arthropod parasites of in Nepal 1500 s. venustum in 1365 in Apis mellifera, toxicity of 163 in Nova Scotia 1816 Maize (Zea mays) in Apis mellifera, toxicity of 163 bacillus sphaericus in, not pathogenic | | | |
| Simulium penobscotensis in 2457 with oil 3074 in Nepal 1500 S. venustum in 1365 in Apis mellifera, toxicity of 163 in Nova Scotia 1816 Maize (Zea mays) in Asian buffalo Bacillus sphaericus in, not pathogenic | | | |
| S. venustum in 1365 in Apis mellifera, toxicity of 163 in Nova Scotia 1816 Maize (Zea mays) in Asian buffalo Bacillus sphaericus in, not pathogenic | | | |
| Maize (Zea mays) in Asian buffalo Bacillus sphaericus in, not pathogenic | | | |
| | | | |
| | | effects on skin of 3249 | 2253 |

urticaria caused by 1736

Man contd Man contd. Mammals contd. Gasterophilidae on, in Poland 2473
Hypodermatidae on, in Poland 2473
Ixodidae on, in Orissa 1204
Leishmania spp. in, in Neotropical region Anopheles contd. Culicoides spp. on contd. in Zaïre 989 A. quadrimaculatus on, attraction of C. barbosai on, in Florida 2440
C. belkini on, bites by 1097
C. furens on, in Puerto Rico 2440
C. grahamii on, in Gabon 2745, 3103 1879 A. stephensi on, in Tamil Nadu 2775 A. subpictus on, in Tamil Nadu 2775 Apis mellifera on Mesostigmata on, in Mexico 2583 antibodies to 2542 C. guttipennis on, in Wisconsin antibodies to 2542 hypersensitivity to 2534, 2541 diagnosis of 2198, 2201, 3182, 3185 treatment of 401, 634, 1971, 3184 Araneae on, in Yugoslavia 1221 Oestridae on, in Poland 2473 hoguei on, in Mexico 2442 pyrethroids in metabolism of 1466 C. hollensis on, in South Carolina 2440. Siphonaptera on in Alaska 770 C. mississippiensis on, in Florida 2440, Araneae on, in rugostavia 1221
Armillifer armillatus on, in Ghana 293
A. grandis on, in Ivory Coast 2664
arthropod parasites on, transferred from pets 982
arthropod pests of in Czechoslovakia 1845 2808 C. paraensis on, in Wisconsin 833 Mammals, small C. phlebotomus on, in Trinidad 505 Cuterebra spp. on, in Kentucky 1678 Darna trima RNA virus in, antibodies to Acari on in Hungary 1745 in Poland 1497, 1498 affecting eyes, book 1241 book 2279 Anoplura on 1804 in Bulgaria 1287 in Poland 1498 deet on, evaporation of 2946 in Indiana 1259 Demodex spp. on, microhabitats of 475 in Italy 969 D. folliculorum on arthropod parasites of, interactions among arthropod-transmitted diseases of 2286 granuloma caused by 676 book 2279 rosacea caused by 3224 symptoms of 1793 Dermacentor variabilis on, feeding by 250 pathology of 2021 Dermacentor andersoni on, in Washington arthropods on, hypersensitivity to 1506 Astegopteryx styracicola on, bites by 7
Austrosimulium australense on, in New
Zealand 2145
Babesia spp. in 3191
review of 250 2557 D. variabilis on in Nova Scotia 2559 in Washington 2557 Gamasinae on, in USSR 931 Dermanyssus gallinae on hypersensitivity to 3211 in Quebec 2245 Blatta orientalis on, hypersensitivity to Gamasoidea on in Bulgaria 1' in USSR 667 Blattaria on, hypersensitivity to 675 Dermatobia hominis on, in tongue 1677 Ixodes acutitarsus on, in Nepal 1993 mites on, in Thailand 3230 Dermatophagoides spp. on, hypersensitivity to 2920 Blattella germanica on, hypersensitivity to 460, 2701 Myocoptidae on, in Spain 1478
parasites of, in Balearic Islands 312
Pygmephorus spp. on, in North America
2643 Buthidae on, in South Africa 679 D. farinae on hypersensitivity to 675, 2566, 3222 role in urticaria of 2633 Ceratophyllus spp. on, dermatitis caused by 3026 D. pteronyssinus on antibodies to 937, 1217, 2649 hypersensitivity to 422, 423, 1209, 1443, 1516, 1798, 2236, 2566, 2648, Chagasia bonneae on, in Brazil 155 Cheiracanthium spp. on, effects of bite by 2643 Siphonaptera on host transfer by 1032 in Bulgaria 1287 in Poland 1284, 1498 in Spain 329 in USSR 499, 2083 C. lawrencei on, necrosis caused by 3240 C. punctorium on, effects of bite by 2250 Cheyletiella spp. on, effects of 417 2650 diagnosis of 2234 treatment of 1790, 3228 role in allergic rhinitis of 2645 Trombiculidae on dermatitis caused by 2651 prurigo caused by 2345 in Maharashtra 929, 930 prurigo caused by diseases of, control of vectors of 462 diseases of, control of vectors of 462 encephalitis viruses in, in Americas 1065 Euproctis chrysorrhoea on, lesions caused by 2196 E. similis on conjunctivitis caused by 461 dermatitis caused by 461 in West Malaysia 3217 yasguri on effects of 1780 Man prurigo caused by 2345 Cheyletus spp. in, hypersensitivity to 2920 Acarus siro on, hypersensitivity to 2650 Acades spp. on feeding by 1826 in Nigeria 334, 3043 in Senegal 166

A. aegypti on, attraction of 1879

A. albopictus on distribution pottern of 542 Chrysomya bezziana on, in India 884 Cladotanytarsus lewisi on antibodies to 886 fly control on, repellent-treated jackets for Glossina spp. on, in Congo 1116, 2836 G. palpalis on, in Ivory Coast 1669 hypersensitivity to 886 distribution pattern of 542 in Japan 819 Cochliomyia hominivorax on in Belize 2851 in Brazil 2505 Glycyphagus domesticus on, A. cantator on, in Connecticut 1574 hypersensitivity to 2650 A. diantaeus on, in Belorusia 1076
A. geniculatus on, in England 1565
A. poicilia on, in Philippines 1312
A. polynesiensis on, in French Polynesia 2785 Grylloidea on, hypersensitivity to 2896
Haemaphysalis aponommoides on, in
Nepal 1993 Coquillettidia richiardii on, in Belorussia 1076 Ctenocephalides felis on in Burundi 2718 in Maryland 2351 Hemiptera on bites by 1567 review 1011, 1012 transfer from wild animals of 2351

Culex spp. on, in Andhra Pradesh 2773

C. annulirostris on, in Queensland 507

C. erythrothorax on, in California 1884 A. riversi on, in Japan 819
A. sierrensis on, in California 164
A. sollicitans on, in Connecticut 1574
A. vexans on, in Switzerland 2751 Heteropoda venatoria on, bites by 1223 house-dust mites on, hypersensitivity to, diagnosis of 2237 Aethus indicus on, earache caused by molestus on, in Uzbekistan 2110 Hymenoptera on Hymenoptera on
hypersensitivity to
diagnosis of 2035
treatment of 2543
in Nansei Islands 712
Ixodes acutitarsus on, in Nepal 1993
I. dammini on
feeding by 250
in Massachusetts 2003
Legatic on in Nepal 1993 opisthopus on, in Guatemala 1646 709
Amblyomma americanum on, skin reactions to 3201
A. ovale on, paralysis caused by 3200
A. testudinarium on, in Kyushu 2906
Androctonus crassicauda on, in Saudi
Arabia 1234
Anopheles spp. on
feeding preferences of 2738
in Assam 3100
in Brazil 2801
in Tanzania 131 pipiens on C. pipiens on feeding by 150 in Uzbekistan 2110 C. portesi on, in French Guiana 3030 C. quinquefasciatus on in California 1884 in Delhi 2695 in Tanzania 131
C. tarsalis on, in California 1884
C. thalassius on, in Gambia 2758 I. ovatus on, in Nepal 1993
I. scapularis on, in Massachusetts 260 Ixodoidea on in Tanzania 131 C. tritaeniorhynchus on, in Philippines erythema associated with 2222 A. albimanus on, in Mexico 2400
A. aquasalis on, in Guyana 968
A. arabiensis on, in Nigeria 2096
A. balabacensis on, in Sabah 2789
A. campestris on, in West Malaysia 280
A. culicifacies on, in Tamil Nadu 1912
A. darlingi on, in Brazil 1338, 2793
A. gambiae on in Congo 2413 in Europe 457
in New York 2621
Lyme arthritis associated with 2619 Culicidae on ulicidae on
hypersensitivity to 546
bibliography 820
in Central African Republic 3047
in Czechoslovakia 2119
in Gambia 135
in Italy 971
in Queensland 1291
in Upper Volta 2786
not affecting lung functions 2114 Lyme arthritis associated with a Latrodectus mactans on effects of bite by 289 in Australia 1459 in New Zealand 1459 treatment of bite by 289 Lepidoglyphus destructor on, hypersensitivity to 2634, 2650 Lepidoglara on in Congo 2413 in Nigeria 2096 A. melas on, in Gambia 2758
A. philippinensis on, in India 3101
A. pulcherrimus on, in Uzbekistan 2106 Lepidoptera on effects of 710 not affecting lung functions 2114 Culicoides spp. on in England 3107

| 9 | | |
|--|--|---|
| Man contd. | Man contd. | mangyanus, Anopheles |
| Leptocimex vespertilionis on, in Iraq | Sarcoptes scabiei on contd. | manilensis, Locusta migratoria |
| 2711 Liponyssoides bengalensis on, in West | eczema caused by 419 etiology of 3213 | Manitoba Aedes communis in |
| Bengal 1796 | in Czechoslovakia 1444 | natural enemies of 782 |
| Lipoptena spp. on, in Japan 2858 | in Denmark 3226 | viruses in 795 |
| L. cervi on, in Finland 1952 | in India 671 | A. dorsalis in, natural enemies of 2404 |
| louse control on, poisoning by insecticides | in Minnesota 2654 | A. hendersoni in 1316 |
| for 756 Loxosceles spp. on, effects of bite by 996 | in New Zealand 2930 in Norway 3214, 3215, 3216 | A. sticticus in 2748 A. vexans in 2748 |
| L. reclusa on | in Ohio 3218 | natural enemies of 2404 |
| attachment of venom to erythrocytes | in Ontario 2921 | Formicidae in, in hothouses 2204 |
| pathogenicity of 2934 | in South Africa 3227 in Tokelau Islands 2930 | Tapinoma melanocephalum in, in dwellings 2204 |
| L. reclusa venom in, hemolysis caused by | in UK 59 | Mansonella ozzardi |
| 685 | pathogenesis of 281 | in |
| Lutzomyia dispar on, in Brazil 1663 L. umbratilis on, in French Guiana 2449 | prurigo caused by 2345 symptoms of 1793 | Culicoides phlebotomus, transmission o |
| Lycosa spp. on, in Utah 688 | Sicarius spp. on, effects of bite by 996 | man |
| mite control on, acaricides for 3214, | Simuliidae on | in Americas 978 |
| 3215, 3216 Monomorium pharaonis on 460 | effects of 992 evaluating attack by 361 | in Trinidad 505 vectors of 978 |
| mosquito repellents for, screening of 802 | in Maine 853 | Mansonia |
| myiasis-causing flies on, in Bihar 885 | Simulium spp. on | attraction of, to mammals 2737 |
| nasal myiasis in, nostril closure for treatment of 1418 | in Brazil 1338 in West Africa 2458 | control of, insecticides for 971, 1564 identifying of, review 830 |
| Notoedres cati on, in Japan 2010 | S. damnosum on | in Indonesia 2090 |
| Oedemeridae on, dermatitis caused by | in Burundi 854 | in Malagasy Republic 2408 |
| 711 Contract oxis on | in Cameroon 1074 | in Switzerland 2751 |
| Oestrus ovis on in Iraq 2472 | in Volta River Basin 1110 S. sirbanum on, in Volta River Basin | in dwellings in Congo 2836 |
| in Libya · 3138 | 1110 | in Upper Volta 1564 |
| Onchocerca volvulus in, distribution | S. venustum on, in Quebec 2456 | in rice-fields, in Gambia 1330 |
| pattern of 856 Ornithodoros coniceps on, effects of bite | Siphonaptera on in Alaska 770 | on goat, in Gambia 2737 on man, in Italy 971 |
| by 1431 | in Northern Ireland 768 | Rift Valley fever, virus in, in Africa 976 |
| Paederus fuscipes on, dermatitis caused by | prurigo caused by 2345 | vertical distribution of 1330 |
| 711 Panstrongylus megistus on, in Brazil 961 | pruritus caused by 1544 stinging insects on, hypersensitivity to | Mansonia africana antennae in, sensilla on 3051 |
| Parabuthus liosoma on, in Saudi Arabia | 1965 | Dirofilaria immitis in, in East Africa 55 |
| 1234 | Stomoxys calcitrans on, in Colorado | flight activity in 3046 |
| parasitic zoonoses in 979 parathion in, poisoning by 1809 | 1718 storage mites on, hypersensitivity to | in Central African Republic 3047 in Congo 2739 |
| Pediculus capitis on | 1207 | in Gambia 135 |
| eczema caused by 419 | Tabanidae on | in Nigeria 3046 |
| effects of 1533 in California 1274 | in Nansei Islands 716 in Siberia 601 | in Senegal 3080 |
| in East Germany 2066 | in Thailand 1142 | mate-finding in 3051 on man, in Gambia 135 |
| in Ethiopia 62 | in USA 2862 | palps in, sensilla on 3051 |
| in Ghana 756 | Tabanus iyoensis on, in Honshu 2486 | seasonal abundance of 2739 |
| in Iowa 1535 in Netherlands 1007 | Telmatoscopus albipunctatus on, in West Malaysia 578 | sex ratio in 3046 Wuchereria bancrofti in, not developing |
| in Seychelles 3019 | Tephrina disputaria on, in Saudi Arabia | 550 |
| in UK 59 | 1236 | Mansonia annulifera |
| rearing of 1273 P. humanus on | Thaumetopoea pityocampa on, urticaria caused by 2895 | chromosomes in 2432 in India 2432 |
| effects of 1533 | tick-borne encephalitis | in cattle sheds, in Assam 2432 |
| in California 1274 | virus in | Mansonia indiana, chromosomes in 2432 |
| in Ethiopia 62 in Japan 708 | antibodies to 2600 neurological effects of 2972 | Mansonia richiardii (see Coquillettidia richiardii) |
| in UK 59 | tick control on 463 | Mansonia uniformis |
| Periplaneta spp. on, hypersensitivity to | Triatoma barberi on, in Mexico 3023 | antennae in, sensilla on 3051 |
| 1516 P. americana on, hypersensitivity to | T. infestans on, in Brazil 961 T. sordida on, in Brazil 961 | chromosomes in 2432 Dirofilaria immitis in, in East Africa 550 |
| 2327 | Tribeč virus in, antibodies to 2600 | host preferences of 1291 |
| pest control on, repellents for 2671 | Trixacarus caviae on, hypersensitivity to | in Australia 1291 |
| Phlebotomus papatasi on | Tyroglyphidae on, hypersensitivity to | in Congo 2739 in Gambia 135 |
| feeding by 2138 | 1219 | in Japan 821 |
| in Israel 558 | Tyrophagus putrescentiae on, | in Philippines 1321 |
| P. perniciosus on, in Tunisia 2446 Plasmodium falciparum in, relation of | hypersensitivity to 2634, 2650 Uukuniemi virus in, antibodies to 2600 | mate-finding in 3051 on man, in Gambia 135 |
| pregnancy and 2098 | Vespa spp. on | palps in, sensilla on 3051 |
| Psorophora ferox on, feeding by 1826 | hypersensitivity to 2541 | seasonal abundance of 2739 |
| Pthirus pubis on effects of 1533 | protective clothing against 2193 Vespidae on, effects of sting by 242 | Wuchereria bancrofti in, not developing 550 |
| in California 1274 | Vespula spp. on | Marburg virus |
| in Ethiopia 62 | antibodies to 2542 | in |
| in Japan 708 in UK 59 | hypersensitivity to 2541 diagnosis of 2201 | Aedes aegypti infectivity of 991 |
| Pulex irritans on | treatment of 401 | replication of 989 |
| in Burundi 2718 | V. vulgaris on, hypersensitivity to, | vectors of 991 |
| in Ryukyu Islands 718 | diagnosis of 2198 Wohlfahrtia vigil on in Colorado 1718 | Margarine, diet component for, Ophyra |
| Pyemotes tritici on, in Tunisia 2635 P. zwoelferi on, prurigo caused by 3210 | Wohlfahrtia vigil on, in Colorado 1718 Wuchereria bancrofti in, in Ryukyu | aenescens 908 marginatum, Hyalomma |
| Rhipicephalus sanguineus on, in West | Islands 722 | marginatus, Dermacentor |
| Germany 2594 | manchuriensis, Culicoides | mariae, Aedes |
| Rhodnius prolixus on, in Venezuela 73 Sarcoptes scabiei on | Manduca sexta diapause in, terminated by organic | Mariana Islands Amblyomma cyprium in 2207 |
| antibodies to 677 | solvents 2191 | Anopheles barbirostris in 2402 |
| defence mechanisms against 475 | formamidines in, neurotoxicity of 476 | marikovskii, Amphipsylla |
| diagnosis of 2929 distribution pattern of 1457 | gut cuticle in, permeability of 2700 JH-carrier protein in 1835 | maritimus, Culicoides maritimus, Ornithodoros |
| | F | |

Melanoconion contd

Marmota himalayana Amphipsylla tuta on, in Yunnan Province 1545 Frontopsylla tomentosa on, in China 1034 marocanus, Ornithodoros (see O. erraticus) Marsh tea (see Ledum palustre) marshallii. Anopheles Marshland Aedes spp. in, in Quebec 512
Coquillettidia perturbans in, in Minnesota 154 Culicidae in, in Finland 1916 Marshland, brackish, Aedes spp. in, in Quebec 512 Marsupialia Ascoschoengastia spp. on, in Papua New Guinea 1449 Myobiidae on, in Western Australia 945 Trombiculidae on, in Papua New Guinea Martes americana Chaetopsylla floridensis on, in Colorado 1028 Nearctopsylla grahami on, in Ontario 1029 Siphonaptera on, in USA 1028
Martin, house (see Delichon urbica)
Martin, sand (see Riparia riparia)
martini, Phlebotomus martinii, Glossina fuscipes Martinique (indexed under French West Indies) Marvex (see Dichlorvos) Maryland Maryland
Aedes atropalpus in 1044
Ctenocephalides felis in, on man 2351
Culicidae in 1047, 1891
viruses in 2969
mascarensis, Aedes
mascittii, Phlebotomus Massachusetts Culex pipiens in 1921 Dermacentor variabilis in 2560 human babesiosis in 250 Ixodes dammini in 2003, 3191 on man 250 1998 on Odocoileus sporozoans in 2575 I. scapularis in on dog 260 on man 260 Musca autumnalis in, nematodes in 1822 Tabanus nigrovittatus in, natural enemies of 2530 Mastigophora 194, 195, 196, 197, 198, 1606 Blastocrithidia 45 B. triatomae 1016, 1019 Bodo edax 1019 Crithidia 45 C. fasciculata 475 C. fasciculata 475
Endotrypanum schaudinni 2136
Herpetomonas 45
Leishmania 42, 46, 444, 835, 836, 837, 1104, 1926, 2134, 2138, 2142, 2446, 2450, 2451, 2814, 2950, 2985, 3111
L. braziliensis 47, 441, 1100, 2136, 2447, 2440 2449 L. donovani 185, 186, 2038, 3110 L. herreri 1099 L. herreri 1099
L. infantum 47, 441
L. major 2447
L. mexicana 47, 441, 3115
L. peruvianus 2447
L. tropica 44, 556, 558, 838, 2447
Leptomonas 45
Physical arguments 45 Lepiomonas 43
Rhynchoidomonas 45
Trypanosoma 412, 567, 569, 860, 1116, 1932, 2150, 2151, 2464, 2836, 2950, 2985 2985
T. brucei 568, 570, 1118, 1264, 1379, 1387, 2152, 2153, 2468, 2469, 2829, 3086, 3087, 3134
T. congolense 199, 1387, 1933, 2468, 2470, 2830, 3087, 3088, 3132
T. cruzi 21, 43, 67, 68, 70, 74, 75, 1016, 1019, 1276, 1278, 1279, 1539, 2074, 2075, 2077, 2078, 2080, 2339, 2705, 2707, 2708, 2709, 2829, 3023
T. rangeli 21, 74, 2136, 3022
T. theileri 887, 1388
T. vivax 1387, 2830

Mating disruption, against, Dermacentor variabilis 2578 Matricaria, acaricidal activity of extracts of 246 Matricaria chamomilla (see Chamomile) Matrone, in Culicidae, role in reproduction maturus. Chironomus (see C. attenuatus) maura, Archaeopsylla erinacei Mauritania, Phlebotominae in 3116 Mauritius malaria control in 2436 maiana control in 2436
Stomoxys nigra in 626
maurus, Scorpio
maxima, Dipetalogaster
Mayaro virus, in, Aedes albopictus,
persistence of 2760 mavnei. Euroglyphus mazzottii, Triatoma phyllosoma MCPA ((4-chloro-2-methylphenoxy)acetic acid) in Hydrophilus triangularis, toxicity of 1854 in *Tropisternus lateralis*, toxicity of 1854 Meat, pesticides in, residues of 2942 Mebendazole (methyl (5-benzoyl-1*H*benzimidazol-2-yl)carbamate) with trichlorphon 2476 meconicera, Megaselia Mecoptera, book 2994 Medicago sativa (see Lucerne) medicorum, Glossina medinalis, Cnaphalocrocis meditabunda, Myospila Megabothris advenarius biotopes of 499 in USSR 499 on small mammals, in USSR 499 Megabothris calcarifer biotopes of 49 in USSR 499 on small mammals, in USSR 499 Megabothris taiganus biotopes of 499 in USSR 499 on small mammals, in USSR 499 Megabothris turbidus hosts of, transfer between in Czechoslovakia 1032 megacephala, Chrysomya 1032 megaporus, Steatonyssus Megarthrus flight activity in 2892 in dung, in Finland 2892 Megaselia coacta food preferences in 1400 in USSR 1400 seasonal abundance of 1400 Megaselia crassipes 1400 food preferences in in USSR 1400 seasonal abundance of 1400 Megaselia meconicera food preferences in 1400 in USSR 1400 seasonal abundance of 1400 Megaselia pleuralis food preferences in 1400 in USSR 1400 seasonal abundance of 1400 Megaselia rufipes food preferences in 1400 in USSR 1400 seasonal abundance of 1400 Megaselia scalaris biology of 1734 development in effects of crowding on 1734 effects of crowding on 1734
effects of photoperiod on 905
effects of temperature on 905, 1734
megistus, Panstrongylus
meginii, Otobius
Megoura viciae, photoperiodism in 1729
Melanins, in Asian buffalo skin, effects of
pesticides on 3249
melanaentala Trinsprae melanocephala, Triatoma melanocephalum, Tapinoma Melanoconion Bunyaviridae in, transmission of 2968 genitalia in 1555 in Brazil 125

in Dominican Republic 2086 melanogaster. Drosophila melanoon, Anopheles melanura, Culiseta melas. Anopheles Meleagris gallopavo (see Turkeys) Melittin in man, antibodies to 2542 in rat, effects on brain of 1422 mitochondrial functions as affected by 2197 Mellein (see 1*H*-2-Benzopyran-1-one, 3,4-dihydro-8-hydroxy-3-methyl-, (*R*)-) melleus, Culicoides mellifera, Apis Meloidae, in Ryukyu Islands 711 Melon fields, Phlebotominae in, in Yugoslavia 444 Melophagus ovinus control of, insecticides for 695 in New Zealand 599 in Switzerland 1776 on sheep in New Zealand 599 in Switzerland 1776 Menacanthus stramineus control of controlled burning for 925 insecticides for 1532, 2042, 2333 insecticides for 15 in India 1532, 2333 in USA 925 in USSR 2042 on fowl in Andaman and Nicobar Islands in India 1532 on turkeys, in Mississippi 925

Menadione (see 1,4-Naphthalenedione, 2methyl-) Menazon (S-[(4,6-diamino-1,3,5-triazin-2-yl)methyl] O,O-dimethyl phosphorodithioate) against Gasterophilus spp., on horse 3141 Rhinoestrus purpureus, on horse 3141 Menemerus bivittatus biology of 293 distribution of 293 in USA 293 in dwellings in California 293 in Florida 293 prey of 293 Menidia audens prey of 2484 preying on, Chaoborus astictopus, and biological control using, in California 2484 Meningitis, in man, associated with nasal myiasis 884

Menopon, on pigeon, in Spain 1480

Menopon gallinae
control of, insecticides for 1532
in India 1532 on fowl, in India 1532 mephitidis, Neotrichodectes Mephitis mephitis Architos mepnitis
arthropod parasites of, in Indiana 1256
Neotrichodectes mephitidis on
in Indiana 57, 1527
in Texas 1530
meraukensis, Anopheles
mercatorum, Drosophila
merceti, Comperia Mercury, (4-carboxyphenyl)chloro-, in Culex quinquefasciatus, inhibiting choline kinase 342
Mercury, (4-carboxyphenyl)hydroxy-, in Musca domestica, inhibition of ATPase by 1324 Mercury, methyl-, in Blattella germanica, toxicology of 1270 meridianus, Hirstionyssus Meringis disparalis sp. nov., description of 327 in USA 327 on Dipodomys merriami, in New Mexico on Dipodomys ordii, in New Mexico 327

on Onychomys leucogaster, in New Mexico 327

| Subject Index | | 511 |
|--|--|--|
| Meringis facilis | Mesopsylla lenis | 2,5-Methano-2H-indeno[1,2-b]oxirene, |
| sp. nov., description of 327 | in USSR 1031 | 2,3,4,5,7,7-hexachloro-1a,1b,5,5a,6,6a- |
| in USA 327 on <i>Dipodomys ordii</i> 327 | on jerboa, in USSR 1031 Mesostigmata | hexahydro- contd. |
| on Sylvilagus audubonii 327 | in Norway 2205 | insecticidal activity of enantiomers of 1228 |
| Meriones crassus, Leishmania tropica in, in | in Falco sparverius nests, in New York | 1,3,4-Metheno-1H-cyclobuta[cd]pentalene-2- |
| Saudi Arabia 838 | 1991 | pentanoic acid, 1,1a,3,3a,4,5,5,5a,5b,6- |
| Meriones erythrourus Hoplopleura merionidis on, in | in Otus asio nests, in New York 1991 on mammals, in Mexico 2583 | decachlorooctahydro-2-hydroxy-γ-oxo-, ethyl ester (see Kelevan) |
| Tadzhikistan 60 | Mesostoma | 1,3,4-Metheno-1 <i>H</i> -cyclobuta[<i>cd</i>]pentalene, |
| Polyplax paradoxa on, in Tadzhikistan | preying on | 1,1a,2,2,3,3a,4,5,5,5a,5b,6- |
| 60 Meriones libycus | Anopheles freeborni, in California 2761 | dodecachlorooctahydro- (see Mirex) 1,3,4-Metheno-2H-cyclobuta[cd]pentalen-2- |
| Leishmania tropica in, in Saudi Arabia | Culex tarsalis, in California 2761 | one, 1,1a,3,3a,4,5,5,5a,5b,6- |
| 838 | Mesostoma ehrenberghii | decachlorooctahydro- (see Chlordecone) |
| Siphonaptera on, exchange with Rhombomys opimus of 2348 | preying on Anopheles freeborni, in California 103 | Methidathion (S-[(5-methoxy-2-oxo-1,3,4-thiadiazol-3(2H)-yl)methyl] O,O-dimethyl |
| Meriones meridianus | Culex tarsalis, in California 103 | phosphorodithioate) |
| Hoplopleura merionidis on, in | Mesostoma lingua | against 2702 |
| Tadzhikistan 60 Polyplax chinensis on, in Tadzhikistan | biology of 103, 1883 preying on | Damalinia bovis, on cattle 2702 Haematopinus eurysternus, on cattle |
| 60 | Anopheles freeborni, in California 103, | 2702 |
| Siphonaptera on, exchange with | 1883 | Linognathus vituli, on cattle 2702 |
| Rhombomys opimus of 2348 Meriones tamariscinus, Hoplopleura | Culex tarsalis, in California 103, 1883 messeae, Anopheles | in cattle, toxicity of 2702 resistance to, in, <i>Musca domestica</i> , in |
| merionidis on, in Tadzhikistan 60 | Metabinuncus birmanicus | Honshu 2488 |
| Meriones unguiculatus Brugia malayi in | descriptions of 1773 in Thailand 1773 | Metholitenesses tetrahydrofolete) |
| infectivity of 792 | Metabrom (see Bromophos) | Methyltransferase, tetrahydrofolate) L-Methionine |
| localisation of 792 | Metacnephia tredecimata (see Cnephia | in Aedes aegypti |
| B. pahangi in infectivity of 792 | tredecimata) metallicum, Simulium | biosynthesis of 17 Brugia pahangi stimulating synthesis |
| localisation of 792 | Metarhizium anisopliae | from homocysteine of 1571 |
| Dipetalonema viteae in, infectivity of | in | in Anopheles stephensi hemolymph, |
| Ornithodoros moubata on, hypersensitivity | Aedes aegypti, not infective 2772 Anopheles stephensi, pathogenicity of | effects of <i>Plasmodium berghei</i> on 1048 |
| to 1749 | 2772 | Methomyl (methyl N- |
| merionidis, Hoplopleura | Culex quinquefasciatus | [[(methylamino)carbonyl]oxy]ethanimido- |
| Mermet virus, in, Culex spp., in Tennessee 828 | in Tamil Nadu 2772 pathogenicity of 2772 | thioate) formulations of, microcapsules 697 |
| Mermithidae | metatarsale, Simulium | in Aedes aegypti, inhibition of larval |
| in Andre scholles in South Africa 241 | Metathion (see Fenitrothion) | negative phototaxis by 346 |
| Aedes caballus, in South Africa 341 A. dorsalis, in Manitoba 2404 | metcalfi, Anopheles meteorica, Hydrotaea | Methoprene (1-methylethyl (2E,4E)-11-methoxy-3,7,11-trimethyl-2,4- |
| A. vexans, in Manitoba 2404 | Metepa (1,1',1"-phosphinylidynetris[2- | dodecadienoate) |
| Anopheles nivipes, in Thailand 1607 Ephemeroptera 2894 | methylaziridine]) in <i>Dermacentor variabilis</i> , effects of 2002 | against Aedes aegypti 1346, 1624, 1889 |
| Glossina palpalis, in Ivory Coast 1669 | sterilant for, Aedes caspius 79 | A. epactius 1889 |
| Simulium aokii, in Hokkaido 851 | Methanamine, N,N-dimethyl- | A. sollicitans 1570, 1889 |
| S. bidentatum, in Kyushu 1367 S. japonicum, in Kyushu 1367 | attractant for Hippelates spp. 208 | A. taeniorhynchus 148 in temporary pools 1895 |
| S. tobetsuense, in Hokkaido 851 | Musca domestica 208 | Chironomidae, in flood-control channels |
| Meroplius, in British Isles 2184 | Muscina stabulans 208 | 1859 |
| merriami, Orycteroxenus merus, Anopheles | in fly attractants 2876 Methanaminium, N,N,N-trimethyl-, in | Culex peus, in catch basins 114 C. pipiens |
| mesembrinae, Pygmephorus (see Siteroptes | Periplaneta americana, blocking | in catch basins 113 |
| mesembrinae) mesembrinae, Siteroptes (Pygmephorus) | trochanteral hairplate afferents 3013 Methane, sulfinylbis- (see Dimethyl | in drainage ditches 118 C. quinquefasciatus, in catch basins |
| Mesobuthus eupeus | sulfoxide) | 114 |
| in Iran 2932 | Methane, trichloro-, with turpentine, | Culicidae 112, 1857 |
| venom of 2932 Mesocricetus auratus (see Hamster, golden) | against, <i>Chrysomya bezziana</i> , on man 884 | in cemetery vases 117 in flood-control channels 1859 |
| Mesocyclops leuckarti | Methanesulfonic acid | Diptera, in fowl dung 2494 |
| Coelomomyces iliensis in 773 | ethyl ester | Haematobia irritans, in cattle dung |
| in USA 2485 preying on, <i>Chaoborus astictopus</i> , in | in Aedes aegypti, effects of 81 mutagen for, Anopheles albimanus | 1165 Hypoderma spp., on cattle 865 |
| California 2485 | 816 | Monomorium pharaonis, in hospitals |
| Mesogomphus lineatus predation by | Methanimidamide, N'-(4-chloro-2-methylphenyl)-N,N-dimethyl- (see | Musca autumnalis, in cattle dung 1165 |
| effects of body weight on 1919 | Chlordimeform) | M. domestica 1683, 2257 |
| effects of temperature on 1919 | Methanimidamide, N'-(2,4-dimethylphenyl)- | Prosimulium mixtum 2821 |
| preying on, Culex quinquefasciatus 1919 Mesomermis camdenensis | N-[[(2,4-dimethylphenyl)imino]methyl]-N-methyl- (see Amitraz) | Psorophora columbiae 1570, 1889 Simulium spp. 2821 |
| sp. nov., description of 2819 | 6,9-Methano-2,4,3-benzodioxathiepin, | attractant for, Aedes aegypti 1624 |
| in Simulium tub-mann in Nam York | 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a- | formulations of |
| Simulium tuberosum, in New York 2819 | hexahydro-, 3-oxide (see Endosulfan) 4,7-Methano-1H-indene, 1,4,5,6,7,8,8- | briquets 118 charcoal briquettes 112, 113, 114 |
| S. venustum, infectivity of 2819 | heptachloro-3a,4,7,7a-tetrahydro- (see | controlled-release disks 1859 |
| Mesomermis flumenalis lipids in, and in hosts 2820 | Heptachlor) 4,7-Methano-1 <i>H</i> -indene, 4,5,6,7,8,8- | sand 148 sand granules 118 |
| taxonomy of, characters distinguishing M. | hexachloro-3a,4,7,7a-tetrahydro- | sustained-release bolus 1165 |
| camdenensis and 2819 | in Blattella germanica, metabolism of | in Aedes aegypti |
| Mesomermis japonicus sp. nov., description of 850 | enantiomers of 2049 insecticidal activity of enantiomers of | morphological effects of 1649 stimulating ovarian development 2116 |
| biology of 850 | 1228 | in Anopheles stephensi, effects of 128 |
| in, Simulium japonicum, in Japan 850 Mesomermis paradisus | 4,7-Methano-1 <i>H</i> -indene, 1,2,4,5,6,7,8,8- octachloro-2,3,3a,4,7,7a-hexahydro- (see | in Carassius auratus, not affecting swimming behaviour 955 |
| sp. nov., description of 1108 | Chlordane) | in cattle, effects on bacteria in warbles of |
| in, Prosimulium exigens, in California | 2,5-Methano-2H-indeno[1,2-b]oxirene, | 865 |
| 1108 Mesopsylla eucta | 2,3,4,5,7,7-hexachloro-1a,1b,5,5a,6,6a- hexahydro- | in Gambusia affinis, not affecting swimming behaviour 955 |
| in USSR 1031 | in Blattella germanica, metabolism of | in mosquito cell lines, inhibition of protein |
| on jerboa, in USSR 1031 | enantiomers of 2049 | and nucleic acid synthesis by 2421 |

mosquito control in

Simuliidae in 188 Simulium vittatum in 363 microceras, Dermatophagoides

Mictyris livingstonei, in Australia 3109 Methoprene contd. Micrococcus pyogenes, in, game 2261 in mouse cell lines, toxicity of 2033 Micrococcus roseus, in, Triatoma infestans Migration, role in population dynamics of in Musca domestica excreta 2704 1244 effects of 2511 Micrococcus varians, in, Triatoma infestans migratoria, Locusta effects on ovaries of 2845 excreta 2704 Milichiella lacteipennis inhibiting ovarian development 2865 microplus. Boophilus in USA 1407 in Nasonia vitripennis, toxicity of 1707, Micropolyspora faeni, in. man. in insect rearing media, in Texas 1407 hypersensitivity to 1207 militaris. Liatongus 2173 in *Phormia regina*, effects on ovarian development of 216 in pools, dissipation of 3031 in *Rhodnius prolixus* Milk, diet component for, Myospila meditabunda 2164 micropterus, Aedes Microsporidia Aedes aegypti, in Thailand 1606 domestica 3171 A. quasirusticus, in Spain 1489 Anopheles vagus, in Thailand 1606 effects on egg production of 2067 effects on fecundity of 494 Milk powder in Romanomermis culicivorax, not toxic Culex quinquefasciatus, in Thailand 3004 112, 1891 1606 in Sarcophaga bullata Simuliidae 908 Simuliidae
detecting of 560
effects of temperature on
development of 560
spores of, preserving of 612
Microtabiotes 251, 412, 1593, 1632, 2031,
2206, 2208, 2279 Milk production in cattle effects on parasites of 2173 not affecting parasites 1707
in Stomoxys calcitrans, inhibiting emergence 2871
insect control using 467
persistence of 1570 Anaplasma marginale 651 resistance to, in Culex pipiens, mechanisms of 829, A. mesaeterum 651 A. ovis 651 Cowdria 654 Culicidae, and cross-resistance mimeticus, Culex with Romanomermis culicivorax, C. ruminantium compatible 1047

Methotrexate (N-[4-[[(2,4-diamino-6-pteridinyl)methyl]methylamino]benzoyl]-2261, 2571, 2606 Coxiella burneti Ehrlichia canis 2591 2423 Rickettsia akari R. canada 1748 minima, Cochliomyia miniopteri, Pteracarus L-glutamic acid) R. conori 2574 in Aedes aegypti
inhibition of formyltetrahydrofolate
synthetase by 1051
inhibition of thymidylate synthase by Miniopterus R. prowazekii 1748, 2703 R. rhipicephali 1762 R. rickettsi 921, 2557, 2560 R. sibirica 1748, 2911 R. slovaca 1439, 2574 Methyl eugenol (1,2-dimethoxy-4-(2-Mink (Lutreola vison) propenyl)benzene) tsutsugamushi 2695, 2919, 3217 propenyl)benzene)
in Ocimum sanctum 786
Methyl-parathion (see Parathion-methyl)
Methylparaoxon (see Phosphoric acid,
dimethyl 4-nitrophenyl ester)
Methylprednisolone ((6α,11β)-11,17,21trihydroxy-6-methylpregna-1,4-diene-Wolbachia 2803 microti, Neotrombicula Mink dung Microtrombicula tenmai sp. nov., description of 942 in Japan 942 on Vespertilio orientalis, in Honshu 942 Microtrombicula vespertilionis 2503 3.20-dione) in Blaberus craniifer, enhancing bovinesp. nov., description of 942 in Japan 942 Minnesota serum-albumin stimulated production of lysozyme 2321 on Vespertilio orientalis, in Honshu 942 in rabbit, effects on Glossina palpalis of 2835 Androlaelaps fahrenholzi on 1447 Methyltransferase, tetrahydrofolate Listrophorus occitanus on, in France in Aedes aegypti 17 stimulated by Brugia pahangi 1571 Malaraeus telchinus on 1283 1675 metricus, Polistes Metrifonate (see Trichlorphon) mexicana, Cheyletiella Microtus agrestis Babesia microti in, in West Germany 3187 mexicanum, Simulium Myocoptidae on, in Spain 1478 Microtus arvalis minor, Culex minuta, Haemaphysalis Mexico Anopheles albimanus in 3041 on man 2400 Amphipsylla vinogradovi on, in Qinghai Province 1036 minuta, Sergentomyia A. pseudopunctipennis in 3041 Anthocoridae in nests of, in Hungary minutus, Aedes Boophilus microplus in, natural enemies minutus, Brachygaster of 1990 arthropod parasites of, in Byelorussia minutus, Kirkioestrus minutus. Neotrichodectes minutus, Pteracarus Centruroides elegans in 681 639 Ceratopogonidae in, in salt marshes 2442 Chagas' disease in 1278 Gamasidae in nests of, in Armenia 1546 Hoplopleura acanthopus on, in Bulgaria Cheyletiella mexicana in, on Romerolagus 287 1287 Laelaps hilaris on, in Czechoslovakia C. parasitivorax in, on Romerolagus 287 Cochliomyia hominivorax in 900, 1315 on sheep 2523 1792 Province 328 Siphonaptera in nests of, in Armenia 1546 Demodex spp. in, on livestock 2241 Microtus fortis Geomydoecus spp. in, on Thomomys Chatia hertigi on, in China 2638 mirabile, Austrosimulium 1841 Leptotrombidium subintermedium on, in malaria control in 3041 China 2638 Microtus irene, Amphipsylla jingtieshanensis on, in Qinghai Province 1037 Microtus juldaschi, Leptotrombidium derlatkoi on, in Tadzhikistan 932 Mesostigmata in, on mammals 2583

Phanaeus halffterorum in, on fungi 912 Rhodnius prolixus in, in dwellings 1278
Siolimyia amazonica in 603
Solenopsis geminata in 1990
Triatoma barberi in 3023 Microtus oeconomus, Gamasoidea on, in USSR 667 miser, Atylotus miser, Tetrastichus Microtus pennsylvanicus
Babesia microti in, in Massachusetts T. dimidiata in, in dwellings 1278 Mice (see Mouse) 2575 Michigan Aedes triseriatus in, natural enemies of misera) Dermacentor variabilis on in Massachusetts 2575 in Nova Scotia 928, 2559 habitats of 928 1335 Cnephia mutata in 363 misionensis, Ĉulex Gasterophilus nasalis in, on horse 1680 mosquito control in 799

Ixodes dammini on, in Massachusetts

Microtus subarvalis, Ixodes persulcatus on,

effects of 2609

Milk, curdled, diet component for, Musca bait component for, Blattella germanica diet component for, Ophyra aenescens effects of biting flies on 981, 1688 effects of Dermatobia hominis on 2685 effects of Dermatobia nominis effects of fly control on 2848 effects of Hypoderma on 575 effects of Simulium on 3123 effects of Tabanidae on 2862 effects of Theileria on 2225 minax, Xenopsylla gerbilli Mine tunnels, Culex tarsalis in, in Colorado Pteracarus faini on, in Japan 663 Steatonyssus sinicus on, in China 2656 Miniopterus schreibersii, Pteracarus miniopteri on, in Yugoslavia arthropod parasites of, in Indiana 1256 Stachiella larseni on, in Indiana 57, 1527 Diptera in, in Netherlands 624

Musca domestica in, in Netherlands Ophyra leucostoma in, in Netherlands 2503 Aedes spp. in, in woodland 1610 A. triseriatus in, viruses in 1853 Coquillettidia perturbans in 154 Culex pipiens in, viruses in 1853 C. tarsalis in, viruses in 1853 Cuterebra fontinella in, on Peromyscus Demodex folliculorum in, on man Sarcoptes scabiei in, on man tularemia in 2905 2654 minnesotae, Culiseta silvestris Minyctenopsyllus triangularus gen. et sp. nov., description of 328 in China 328 on Citellus alaschanicus, in Kansu on Myospalax fontanieri, in Kansu Province 328 Mirex (1,1a,2,2,3,3a,4,5,5,5a,5b,6dodecachlorooctahydro-1,3,4-metheno-1H-cyclobuta[cd]pentalene) against, Solenopsis invicta formulations of 299 in birds, residues of 299 in fish, residues of 299 use of, legislation on 299 misera, Parasarcophaga (see Sarcophaga misera, Sarcophaga (Parasarcophaga) Mississippi Amblyomma americanum in, on turkeys Menacanthus stramineus in, on turkeys 925

| Mississippi contd. | Molecular structure-biological activity | Montana contd. |
|--|--|---|
| | | |
| Rhipicephalus sanguineus in, on dog | relationship | Haemaphysalis leporispalustris in, |
| 2623 | DDT analogues, neurotoxicity 2324 | spiroplasmas in 3189 |
| mississippiensis, Culicoides | DDT-pyrethroids, insecticidal activity | Sarcoptes scabiei in, on pig 2248 |
| Missouri, Gasterophilus nasalis in, on horse | 1469 | |
| | | montana, Hybomitra |
| 1680 | 2,6-di- <i>tert</i> -butylphenols, insect growth | montanus, Culicoides |
| Mitaban (see Amitraz) | regulatory activity 956 | montanus, Diamanus |
| Mite | phenyl methylcarbamates, insecticidal | monticola, Aedes |
| | | |
| acaricides in, selectivity of 1461 | activity and acetylcholinesterase | monticola, Haemogamasus |
| as pests and disease vectors, review 2295 | inhibition 700 | Moose (see Alces alces) |
| in New Jersey 28 | pyrethroids, insecticidal activity 1464 | Moraxella, in, cattle, in inflamed warbles |
| in Nova Scotia 1816 | molestus, Culex | 865 |
| in Saudi Arabia 2990 | molestus, Culicoides | |
| | | Moraxella bovis, in, Musca autumnalis, |
| in USA, book 2997 | molitor, Tenebrio | transmission of 2513 |
| in house dust | Mollicutes 3189 | mordellaria, Hypocera |
| detecting of 1782 | Mollusca 224, 1567, 1951, 2037, 3045, | moreletii, Ommatoiulus |
| | | |
| effects of humidity on 1782 | 3058 | Morellia, in Thailand 1731 |
| extracting of 1779 | Lymnaea 800 | Morestan (see Quinomethionate) |
| identifying of 933 | L. tomentosa 898 | morgani, Hybomitra montana |
| in Czechoslovakia 1456 | L. truncatula 2293 | mori, Bombyx |
| | | |
| in Denmark 1781 | Stagnicola palustris 898 | Morinda tinctoria, insecticidal activity of |
| in India 2927 | Molluscicides, sales of, in Finland 3243 | glycosides from 432 |
| in Puerto Rico 2647 | MON-0585 (see Phenol, 2,6-bis(1,1- | Morindin (see 9,10-Anthracenedione, 1,5- |
| in Sweden 2923 | dimethylethyl)-4-(1-methyl-1- | dihydroxy-2-methyl-6-[(6-O-β-D- |
| | | |
| on Aedes quasirusticus, in Spain 1489 | phenylethyl)-) | xylopyranosyl- β -D-glucopyranosyl)oxy]-) |
| on Anopheles crucians, mortality caused | Monema flavescens, venomous spines in | Morocco |
| by 1309 | 1736 | Crataerina hirundinis in, in Delichon |
| on domestic animals | mongolensis, Phlebotomus | urbica nests 883 |
| | | |
| diagnosing of, book 977 | Mongolia | Culicoides calloti in 2810 |
| in Fiji 1262 | fur mites in, on Allactaga 2247 | Hystrichopsylla spp. in 2084 |
| on livestock, in Nigeria 2045 | Gasterophilidae in, on horse 1674 | morsitans, Ĉuliseta |
| on man | livestock in, pest control on 2044 | morsitans, Glossina |
| | | |
| book 2279 | Oestridae in, on horse 1674 | morsitans, Simulium |
| hypersensitivity to 969 | Sarcophaginae in 1706 | mortuorum, Cynomya |
| on Musca domestica, in Saudi Arabia | Tabanidae in 1706 | Morus alba (see Mulberry) |
| 1235 | mongolicus, Dermacarus | Morus nigra (see Mulberry) |
| | | |
| on pet birds, detecting of 669 | moniliformis, Armillifer (Porocephalus) | mosellana, Sitodiplosis |
| on small mammals | Moniliformis dubius | Mosquito (see Culicidae) |
| in Thailand 3230 | in | Mosquito iridescent virus, in, Aedes aegypti, |
| interactions among 1987 | Periplaneta americana, defence | interactions with X-rays of 2112 |
| | | |
| on Synaptomys cooperi, in Indiana 1424 | mechanisms against, overcoming of | Mosquitofish (see Gambusia affinis) |
| on Talpidae, in USA 1814 | 475, 1266 | Motacilla flava, Hyalomma marginatum on, |
| on vole, in Oregon 2232 | Schistocerca gregaria, defence | in Poland 2900 |
| preying on | mechanisms against, overcoming of | moubata, Ornithodoros |
| | | |
| dung-breeding flies 1169 | 1266 | moucheti, Anopheles |
| molluses 2037 | moniliformis, Porocephalus (see Armillifer | moucheti, Lutzomyia |
| water balance in, review 1503 | moniliformis) | Moulting hormones |
| Mite infestations | Monkey | Calliphora 2160 |
| | | |
| in Asian buffalo 270, 2646 | Aedes spp. on, in Senegal 166, 1053 | C. stygia 627, 1810 |
| in camel 270, 2044, 2646 | tick-borne encephalitis, virus in, | C. vicina 1692 |
| in cat 416, 417, 1210, 2010, 2024, 2651 | neurological effects of 2972 | Ornithodoros moubata 1984 |
| in cattle 275, 284, 414, 934, 1452, 1771, | Monkey, rhesus (see Macaca mulatta) | Rhodnius prolixus 1275 |
| | | |
| 2012, 2239, 2241, 2462, 2646, 2658 | Monocerin (see 5H-Furo[3,2- | Mountain areas, Trombiculidae in, habitat |
| in deer 37 | c][2]benzopyran-5-one, 2,3,3a,9b- | change by 1783 |
| in dog 416, 417, 944, 1210, 1448, 1455, | tetrahydro-6-hydroxy-7,8-dimethoxy-2- | Mouse (see also named species) |
| 1780, 1789, 2008, 2243, 2244, 2246, | propyl-) | Aedes spp. on, feeding by 1826 |
| 2546, 2646, 2652, 2657 | monoceros, Penicillidia | A. fluviatilis on, feeding by 964 |
| | | |
| in domestic animals 1262 | Monohelea, in Cayman Islands 1658 | Aransas Bay virus in, pathogenicity of |
| in ferret 415 | Monomorium pharaonis | 2622 |
| in fowl 420, 421, 1532, 1829, 2023, 2922, | biology of 238, 735 | Astegopteryx styracicola on, bites by 764 |
| 2928 | biotopes of 235 | Boophilus microplus on, attachment of |
| | | 1756 |
| in goat 272, 1206, 2001, 2241, 2462, | Bordetella bronchiseptica in, transmission | 1755 |
| 2646, 2915, 3220 | of 460 | Centruroides noxius venom in, toxicity of |
| in guinea-pig 1799 | control of | 3238 |
| in horse 277, 1495, 2241 | baits for 465 | Ceratophyllus anisus on 2082 |
| in livestock 2045 | growth regulators for 1175 | DDT analogues in, metabolism of 1473 |
| | | |
| in man 59, 281, 417, 419, 475, 671, 676, | insecticides for 465, 3181 | Dolichovespula maculata venom in, |
| 677, 969, 1241, 1444, 1457, 1780, | dispersal of 235, 237 | toxicity of 2195 |
| 1793, 1796, 2010, 2021, 2245, 2279, | distribution of 237 | endosulfan in, toxicity of 1385 |
| 2635, 2654, 2921, 2929, 2930, 3210, | hygienic importance of 460 | Eyach virus in, pathogenicity of 2572 |
| | | |
| 3211, 3213, 3214, 3215, 3216, 3218, | in Canada 2204 | fly control on, avermectins for 862 |
| 3224, 3226, 3227 | in Japan 712 | Haemaphysalis doenitzi on, feeding by |
| in mink 1256 | in Poland 3181 | 1200 |
| in mouse 286, 1478, 2022, 2918 | in West Germany 460 | Hyalomma impressum on, feeding by |
| in pet birds 669 | in dwellings, in Poland 3181 | 647 |
| | | |
| in pig 2241, 2248, 2462, 2646, 2926 | in hospitals, in West Germany 460 | insect growth regulators in, toxicity of |
| in pigeon 2242, 2245, 3211 | in hothouses, in Manitoba 2204 | 2033 |
| in rabbit 417, 418, 1218, 3229 | in kitchens, in West Germany 460 | insect repellents in, not mutagenic 2672 |
| in sheep 272, 283, 284, 599, 1770, 1775, | on man, bites by 712 | Ixodes trianguliceps on, resistance to 652 |
| | | |
| 1776, 2230, 2239, 2555, 2646, 2653, | rearing of, techniques for 238, 2199 | Myocoptes musculinus on, antibodies to |
| 2658 | reproduction in 1737 | 2022 |
| in turkeys 421 | sanitary importance of 236 | Myocoptidae on, in Spain 1478 |
| Mitroplatia, in Thailand 1731 | Monopsyllus sciurorum (see Ceratophyllus | organophosphates in, toxicity of 1461 |
| | | |
| mixtum, Prosimulium | sciurorum) | Ornithodoros moubata on, immunity to |
| modestus, Culex | monositus, Tunga | 267 |
| Modoc virus, in, Aedes dorsalis, not | monospila, Sarcophaga | Ornithonyssus bacoti on, in USSR 286 |
| replicating 1578 | Monosulfiram (see Thiodicarbonic diamide | Plasmodium yoelii in, immunization |
| | | |
| mohave, Culicoides | $([(H_2N)C(S)]_2S)$, tetraethyl-) | against 1592 |
| Molasses, in fly baits, repellent to honeybees | monstrosum, Nosomma | Polyplax serrata on, inflammation caused |
| 163 | Montana | by 1534 |
| Mole (see Talpidae) | Ceratophyllus niger in, on fowl 1288 | preying on, Glossina austeni 1115 |
| more (see raipidae) | | |
| | Gasterophilus haemorrhoidalis in, on | Psorophora ferox on, feeding by 1826 |
| | horse 1680 | pyrethroids in, toxicity of 953, 1465 |

Mouse contd. Raxdan virus in, pathogenicity of 2000 Simulium mexicanum on, feeding by Tettnang virus in, pathogenicity of 2573 tick-borne spiroplasmas in, pathogenicity of 3189 toxaphene components in, toxicity of 693 Triatoma barberi on, in Mexico 3023 Trypanosoma congolense in, resistance to 1933 T. cruzi in pathogenicity of 2074 vaccination against 2074

Mouse blood, in Triatomine blood-meals, identifying of 2081

Mouse carcasses, Calliphoridae in, in
Denmark 735 Mouse, cotton (see Peromyscus gossypinus)
Mouse, deer (see Peromyscus maniculatus)
Mouse, Mexican spiny pocket (see Liomys irroratus) Mouse skin, diet component for, Dermatophagoides pteronyssinus 271
Mouse, vesper (see Calomys laucha) Mouse, western jumping (see Zapus) Mouse, white-footed (see Peromyscus leucopus) Mozambique, onchocerciasis in 2452

Mucopolysaccharides
in Culicid peritrophic membranes 1328 in *Phormia regina* chemoreceptors 1157, in Simuliid peritrophic membranes 1328 mucronatus, Eratyrus
muesebecki, Ornithodoros
mukoyamai, Ascoschoengastia
Mulberry (Morus alba and M. nigra) Mulberry (Morus alba and M. nigra)

Mulberry orchards, Aedes sierrensis in,
dispersal of 3094

Mule (Equus caballus × E. asinus)
Simuliidae on, in France 1929

Mules' operation 38, 227, 893, 896

Multi-Film X-77, in diazinon formulations,
effects on insecticidal activity of 3244 multicolor, Anopheles multipicta, Bembix multiplex, Leptotrombidium multisetatus, Eulaelaps multispinosa, Bovicola (see Damalinia multispinosa) multispinosa)
multispinosa, Damalinia (Bovicola)
multispinosus, Odontopsyllus
Muntiacus muntjak
Ancistropsylla nepalensis on
in Nepal 3025
in Tamil Nadu 3025 Muridae, Pygmephorus spp. on, in North America 2643 Murina, Spinturnix maedai on, in Japan 943 Murina aurata, Acanthophthirius murinus on, in Japan 2644 murina, Echidnophaga murinus, Acanthophthirius muris, Alabidopus muris, Ixodes Murweh virus, in, Culicidae, in Queensland Mus caroli, Hoplopleura captiosa on, in Japan 708 Japan Mus famulus, Gahrliepia hegu on, in Yunnan Province 1212 Mus musculus Amphipsylla vinogradovi on, in Qinghai Province 1036 Laelaps agilis on, in Romania 672 Leptotrombidium deliense on, in Taiwan 939 L. subintermedium on, in China 2638 mite control on, acaricide-impregnated baits for 939 Myobia musculi on, in Poland 2918

Myocoptes musculinus on, in Poland

Rhipicephalus sanguineus on, in
Mississippi 2623
Trombiculidae on, in Kyushu 2925
Tunga monositus on, feeding by 1547
Mus saxicola, Nosomma monstrosum on, in
Jammu and Kashmir 646

Musa, Culicidae in axils of, in Philippines

2918

1312

Musca body temperature in, measuring of 1261 control of 2874 in cattle dung effects on bacteria and fungi of 2989 in Australia 1681 on horse, in Spain 1495 Musca amica in USSR 2879 on cattle, in Tuva ASSR 2879 seasonal abundance of 2879 Musca autumnalis biology of 1141 bovine rhinotracheitis virus in, transmission of 2513 canavanine in, toxicity of 1946 control of ontrol of biological 210, 1724, 2200 growth regulators for 1165 insecticides for 1394, 2166 threshold for 2513 Heterotylenchus autumnalis in, effects on behaviour of 386 in Netherlands 2503 in UK 1141, 2853 in USA 207, 210, 386, 1165, 1822, 2200, 2499 in West Germany 1394, 2166, 3157 in cattle dung in California 210, 386 in USA 1165 in dung in California 207 in Netherlands 2503 Moraxella bovis in, transmission of 2513 eye damage caused by 1703 eye lesions caused by 2513 in California 386 in Massachusetts 1822 in South Dakota 2499 in UK 2853 in West Germany 1394, 2166, 3157 Thelazia gulosa in, in Massachusetts 1822 T. lacrymalis in, development of 3175 T. skrjabini in, in Massachusetts 1822 traps for 2499 Musca bezzii diel activity in 592 in Japan 592 on cattle, in Hokkaido 592 seasonal abundance of 592 Musca domestica acephate resistance in, development of 3177 activity in, monitoring of 6 apholate resistance in, biological characteristics associated with 868 aristolochic acid in, effects on chromosomes of 2864 ascorbic acid in, effects on pupation of 622 atrazine in, effects on fate of carbofuran of 1947 attractants for 208, 2875, 2876 Bacillus thuringiensis in, not producing exotoxin 1296 biology of 866, 870, 1141, 2503 caffeine in effects of 2518, 2519 effects on pupation of 622 effects on radiation-induced delayed pupariation of 1949 canavanine in, toxicity of 1946 carbofuran in
effects of atrazine on fate of 1947
sublethal effects of 1391
chasing behaviour in, sex differences in
1962 chitin in effects of growth regulators on biosynthesis of 383 measuring of biosynthesis of 383 chlorfenethol in, not affecting labellar receptors 1129 chromosomes in, maps of 3148 cold stress in, glucose catabolism during 2170 control of 2503 aerial spraying for 1405 biological 2183, 2375, 2517, 2868, 3179

```
Musca domestica contd.
   control of contd.
       eliminating breeding places for 870 growth regulators for 705, 1231, 1393, 1683, 2257, 2494, 2511, 2845, 2887 insecticides for 145, 212, 296, 427,
            431, 432, 699, 700, 735, 870, 953, 1066, 1126, 1225, 1242, 1394, 1405,
            1006, 1126, 1225, 1242, 1594, 1405, 1462, 1464, 1465, 1468, 1471, 1698, 1806, 1947, 2166, 2490, 2494, 2504, 2515, 2516, 2668, 2669, 2670, 2852, 2869, 2937, 2938, 3012, 3154, 3160,
            3176, 3177
       testing oral toxicity of 384 repellents for 2262
       sterile-insect release for 1149 surfactants for 1941 traps for 466, 870, 2188
   cuticle in, insecticide absorption as affected by lipids in 583
    cypermethrin resistance in, in West
   Germany 2166 cytochromes in 2508
       relation of insecticide resistance and
             2507
    DDT analogues in, metabolism of 1473
   DDT in, effects on labellar receptors of 1128, 1129
   DDT-pyrethroids in, site of action of 1469
    DDT resistance in, and cross-resistance
         212
    development in 868
       biochemical changes during 880
       effects of dietary moulting hormones on
             2498
       effects of temperature on 1402
    diflubenzuron in, inhibiting larval
         development 2887
    diflubenzuron resistance in, mechanisms
        of 903
    dimethoate resistance in
       development of 3154
in East Germany 3154
    dves in, light-induced toxicity of 385
   egg-hatch in 868
Eimeria tenella in, dispersal of 3156
    Entomophthora muscae in, in Netherlands
         2503
   enzymes in 383, 390, 398, 691, 700, 788, 882, 903, 1129, 1130, 1146, 1147, 1153, 1324, 1392, 1393, 1502, 2495, 2507, 2508, 2696, 2726, 2885, 2938
   eyes in, peripheral retinal membranes in 389
    fecundity in 868
    fenitrothion resistance in, in Japan 2869
    growth regulators in, degradation of
         1502
    heartbeat in, regulation of 2844
   hemolymph in, coagulation of 1824
Heterotylenchus spp. in, in Brazil 2867
in Bangladesh 3150
in Bermuda 1698
   in Bermuda 169
in Brazil 2867
in Bulgaria 877
in East Germany
                                 3154
   in Egypt 2490
in Italy 969, 2515, 2516
in Japan 788, 1146, 1147, 1941, 2488,
2869
    in Malaysia 2852
    in Netherlands 624, 2503
   in Nigeria 2046
in Niue 2375
   in Pakistan 2986
in Romania 2529
   in Romania 2229
in Saudi Arabia 1235, 1405
in Tonga 2375
in UK 1141, 2853, 3012
in USA 207, 1407, 1704, 2183, 2494, 2499, 2868, 2873, 2875, 3179
    in West Germany 1394, 2166, 2504,
         3160, 3167
    in cattle farms, in California 2873
    in cattle sheds
   in Italy 2515
in Sicily 2516
in dung, in Netherlands 2503
in dwellings, in Bermuda 1698
in fowl dung, in Kentucky 2494
    in fowl houses
       in California 2873
```

| Musca domestica contd. | Musca domestica contd. | Muscalure ((Z)-9-tricosene) |
|--|--|---|
| in fowl houses <i>contd</i> . in North Carolina 2183 | proteins in developmental changes in 1691 | attractant for, Musca domestica 1149 laboratory synthesis of 1144 |
| in insect rearing media, in Texas 1407 | effects of irradiation on 2492 | Musca domestica responses to analogues |
| in livestock farms, in Bulgaria 877 | pupation in | of 3147 |
| in mink dung, in Netherlands 624 in pig confinement housing, in Texas | effects of caffeine on 1416, 2519 effects of cyclic nucleotides on 1416 | Muscidae adults of, larval fat-body persisting in |
| 1704 | pyrethroid resistance in 2863 | 586 |
| in pig farms, in East Germany 3154 | pyrethroids in, metabolism of 1466 | communities of, in various habitats 90 |
| in pig sties, in Sicily 2516 in poultry houses, in North Carolina | rearing of, techniques for 3171 rectal papillae in, membranes of 1956 | habitats of 1689 |
| 3179 | rhabdomeric microvilli in, membranes of | Habronema muscae in, in Uzbekistan in Irish Republic 902 |
| in rubbish dumps, in Honshu 2488 | 1957 | in Northern Ireland 902 |
| in solid waste, in California 207 in stables, in West Germany 3167 | Risella 17 oil in, toxicity of 399 seasonal abundance of 1704, 2046, 3150 | in Ryukyu Islands 717 in South Korea 378 |
| insect growth regulators in | senescence in 2162 | in Thailand 1731 |
| effects of 2511 | sex attraction in 1149 | in Uganda 3180 |
| effects on eggs of 1683 effects on ovaries of 2845 | sex determination in, polymorphism for mechanisms of 2724 | in cattle dung, in Australia 1681 in horse dung, in Queensland 911 |
| insecticide resistance in 735 | sex pheromone of | in livestock farms, in Bulgaria 877 |
| development of 425 | activity of analogues of 3147 | in rivers, in Spain 1499 |
| in Borneo 2852 in Honshu 2488 | laboratory synthesis of 1144 smooth septate junctions in 2521 | on cattle in Hokkaido 592 |
| in UK 3012 | sterilisation of, chemosterilants for 952, | in Tuva ASSR 2879 |
| in West Germany 2504, 3160, 3167 | 1940, 2864 | taxonomy of, characters for, effects of |
| role of cuticular lipids in 583, 1162 role of reduced absorption in 628 | sterols in, effects of diet on 381 Streptococcus faecalis in 2163 | temperature on 894 Muscidifurax, parasitising, Musca |
| insecticide solvents in, toxicity of 303 | sulfenyl-propoxur in | domestica, in Netherlands 2503 |
| insecticide susceptibility in, effects of | metabolism of 904 | Muscidifurax raptor |
| temperature on 1806 insecticides in, effects on nervous system | penetration of 904 tetrachloryinghos resistance in, | biology of 866 host destruction by 605 |
| of 2843 | mechanisms of 1392 | in USA 3179 |
| iproniazid in, effects on pupation of 622 | tetramethrin in, effects on neuromuscular | parasitising |
| landing reaction in 2891 larvae of, as constituent of poultry feed | system of 584 toxaphene components in, toxicity of 693 | Musca domestica 605, 866 and biological control using |
| 3173 | traps for 2499, 2875 | in North Carolina 2183 |
| life-span in, effects of caffeine on 2518 | trichlorphon resistance in | in USA 2868 |
| lindane in, sublethal effects of 1391 lipofuscins in, accumulation of 397 | in East Germany 3154 mechanisms of 882 | in North Carolina 3179 rearing of, techniques for 213 |
| Loxosceles reclusa venom in, toxicity of | selection for 882 | reproduction in 605 |
| 684, 3232 | visual movement detection in 2520 | Muscidifurax zaraptor |
| malathion resistance in, in Japan 2869 Malpighian tubules in, fluid secretion by | visual neurons in, sex differences in 2186 visual system in 2525 | host destruction by 605 parasitising |
| 3178 | Musca domestica calleva | Musca domestica 605 |
| mating preferences in, effects of rearing | hybridization of <i>M. d. curviforceps</i> and | and biological control using, in US |
| conditions on 2725 mites on, in Saudi Arabia 1235 | in Zimbabwe 225 | 2868 reproduction in 605 |
| mitochondrial respiration in, effects of | Musca domestica calleva × M. d. | Muscina assimilis |
| temperature on 2171 | curviforceps, in Zimbabwe 225 | in Canada 217 |
| monogamic factors in, role in reproduction of 40 | Musca domestica curviforceps hybridization of M. d. calleva and 225 | in prehistoric graves, in New Brunswick 217 |
| mortality in, statistical analysis of 2673 | in Zimbabwe 225 | Muscina stabulans |
| natural enemies of, in Pakistan 2986 | in dwellings, in Zimbabwe 225 Musca domestica curviforceps × M. d. | attractants for 208 |
| nervous system in, insecticide resistance in 2843 | calleva, in Zimbabwe 225 | biology of 1141 in Bulgaria 877 |
| neurophysiological techniques with 2258 | Musca domestica domestica | in UK 1141, 2853 |
| nucleic acids in 396 developmental changes in 1691 | enzyme inhibitors in 2522 enzymes in 2522 | in USA 207 in livestock farms, in Bulgaria 877 |
| nutrition of 908 | Musca domestica nebulo | in solid waste, in California 207 |
| on cattle 870 | pupariation in, effects of ethanethioamide | on cattle, in UK 2853 |
| in UK 2853 in West Germany 1394, 2166 | on 875 toxicity studies using 1395 | seasonal abundance of 877 Muscle cramp, in man, caused by |
| on livestock, in Nigeria 2046 | tracheal system in, development of 2854 | Latrodectus mactans bite 289 |
| on sheep, in Romania 2529 | Musca larvipara | Muscoidea, in Ogasawara Islands 2177 |
| orientation in 1687 ovarian development in | in USSR 77 Thelazia rhodesi in, in Uzbekistan 77 | musculi, Hirstionyssus musculi, Myobia |
| effects of caffeine on 2518 | Musca lusoria | musculinus, Myocoptes |
| effects of growth regulators on 2865 oxygen consumption in 2165 | Parafilaria bovicola in, transmission of 617 | Mustela frenata arthropod parasites of, in Indiana 1256 |
| parasites of | P. bovis in, transmission of 310 | Nearctopsylla princei on, in Colorado |
| in Netherlands 2503 | Musca sorbens | 1028 |
| in North Carolina 3179 parasitised by | in Bangladesh 3150 in Italy 969 | Neotrichodectes minutus on, in Indiana 57, 1527 |
| Chalcidoidea, in Tonga 2375 | seasonal abundance of 3150 | Mustela furo (see Ferret) |
| Macrocheles muscaedomesticae, in | Musca tempestiva | Mustela nivalis |
| Saudi Arabia 1235 Muscidifurax raptor 605, 866 | in USSR 2879 on cattle, in Tuva ASSR 2879 | arthropod parasites of, in Indiana 1256 Stachiella kingi on, in Indiana 57, 152' |
| M. zaraptor 605 | seasonal abundance of 2879 | Mustela vison (see Mink) |
| Spalangia endius 605, 1735 | Musca vetustissima | mustelae, Lynxacarus |
| penfluron in, metabolism of 1700 permethrin in | control of, biological 1145, 1154, 2310, 2315, 2893 | Mutagens ethyl methanesulfonate 816 |
| effects of 1126 | in Australia 229, 1145, 1154, 2310, 2315, | toxaphene components 693 |
| effects on neuromuscular transmission | 2570 | mutata, Cnephia (Stegopterna) |
| of 1163 pesticides in, interactions with nervous | in cattle dung, in Australia 2570 population dynamics of, models of 229 | mutata, Stegopterna (see Cnephia mutata) MV-678 (see Benzene, 1-(8-methoxy-4,8- |
| system of 691 | preyed on by, Macrocheles glaber, in | dimethylnonyl)-4-(1-methylethyl)-) |
| picrotoxinin analogues in, insecticidal | Australia 2570 | Myacarus, key to 1451 |
| activity of 427 predators of, in Netherlands 2503 | Musca xanthomelas Parafilaria bovicola in, escape from | Mycobacterium, in, arthropods, in West Germany 738 |
| preyed on by, Ophyra leucostoma, in | mouthparts of 617 | Mycteromyia, taxonomy of 228 |
| Netherlands 624 | P. bovis in, transmission of 310 | Mycteromyiini new tribe 228 |
| propoxur susceptibility in, relation of cytochromes and 2508 | muscaedomesticae, Macrocheles | taxonomy of 228 |

| fyiasis | Myrmecia pilosula contd. | Natural enemies contd. |
|---|---|---|
| in camel 2044 | in Australia 1506 | of arthropods contd. |
| in cat 2502 | on man, hypersensitivity to 1506 | Amblyomma nuttalli 1989 |
| in cattle 575, 577, 861, 863, 865, 968, 1123, 1125, 1399, 1491, 1492, 1936, | Myrmecia pyriformis allergens of 1506 | Anopheles spp. 1607 A. annularis 3102 |
| 2044, 2296, 2475, 2479, 2512, 2532, | in Australia 1506 | A. crucians 1309 |
| 2685, 2838, 3140, 3153 | on man, hypersensitivity to 1506 | A. farauti 1653 |
| in deer 37 | myrmecobii, Echidnophaga | A. freeborni 103, 1883, 2761 |
| in dog 2155, 2502, 2889 | Myrmecophagidae, Rhodnius pallescens on, | A. sinensis 2357 |
| in domestic animals 1262 in horse 1495, 1674, 1680, 2044, 2476, | in Panama 3024 Mystacina tuberculata | A. stephensi 2770 |
| 2477, 2839, 3140, 3141 | arthropod parasites of, in New Zealand | A. vagus 1606 Armigeres spp. 1607 |
| in man 578, 884, 885, 969, 1241, 1418, | 725 | A. subalbatus 1606, 2357 |
| 1677, 1678, 1718, 2279, 2472, 2505, | prey of, in New Zealand 725 | Boophilus microplus 1990 |
| 2851, 3138 in reindeer 1124 | Mythimna separata, migration in 986 Myxoma virus | Chaoborus astictopus 2485 |
| in sheep 38, 227, 576, 893, 895, 896, | in | Chironomus spp. 1136 |
| 897, 900, 1138, 1938, 2044, 2296, | Culiseta annulata, in France 1340 | Chrysomya chloropyga 379 Cochliomyia hominivorax 2857 |
| 2471, 2506, 2523, 2529, 2882, 3164, | rabbit, and biological control using, in | Cricotopus sylvestris 2804 |
| 3165, 3166 in zebu 2154 | Western Australia 2365 Spilopsyllus cuniculi, transmission of | Culex spp. 1607 |
| Aylabris pustulata, nitrogen in 2340 | 2365 | C. minor 1606 |
| Ayobia musculi | reservoirs of 1340 | C. pipiens 2357, 3070 |
| in Poland 2918 | Myxomatosis 305 | C. quinquefasciatus 1606, 2772 |
| on Mus musculus, in Poland 2918 Ayobiidae | NADH, in <i>Phormia regina</i> flight muscles, oxidation of 1948 | C. tarsalis 98, 100, 103, 1883, 2761 C. tritaeniorhynchus 1354 |
| on bat | Nairobi sheep disease, virus, in, Culicoides | Culicidae 1039 |
| in Switzerland 673, 1450 | spp., in Kenya 2443 | Culicoides spp. 1553 |
| in Thailand 1773 | Naled (1,2-dibromo-2,2-dichloroethyl | Dichelacera fasciata 2496 |
| on Marsupialia, in Western Australia 945 | dimethyl phosphate) against | dung-breeding flies 1724 Ectobius panzeri 753 |
| on rodents, in Western Australia 946 | Aedes spp. 529 | Glossina spp. 2986 |
| Ayocoptes japonensis | A. aegypti 801, 1346 | G. palpalis 1669 |
| in Spain 1478 | Culex pipiens 3074 | house-dust mites 2563 |
| on small mammals, in Spain 1478 Ayocoptes musculinus | C. quinquefasciatus 801 pests of livestock 2281 | Hydrellia spp. 1960 Hydrotaea irritans 1689 |
| in Poland 2918 | formulations of, with oil 3074 | Hypoderma spp. 575 |
| in Spain 1478 | in Boophilus microplus, effects on | Lardoglyphus falconidus 276 |
| on mouse, antibodies to 2022 | oviposition of 2598 | Latrodectus mactans 2025 |
| on Mus musculus, in Poland 2918 on small mammals, in Spain 1478 | in Toxorhynchites rutilus, toxicity of 801 namibensis, Sergentomyia | Lepiselaga crassipes 2496 Leptocera spp. 1960 |
| Ayocoptidae, on small mammals, in Spain | Namibia (see South-West Africa) | Lucilia sericata 379 |
| 1478 | nana, Symphoromyia | Musca autumnalis 386 |
| Ayodopsylla insignis in USA 2304 | Nandrolone, in rabbit, effects on Glossina palpalis of 2835 | M. domestica 624, 1235, 2375, 2503, 2867, 2986, 3179 |
| on bat, in New England 2304 | Nannomonas, in, Glossina medicorum, in | M. vetustissima 2570 |
| Ayodopsylla tropica | Upper Volta 2151 | Neostylopyga rhombifolia 1268 |
| sp. nov., description of 1551 | 1,4-Naphthalenedione, 5,8-dihydroxy-2-(1- | Ornithodoros coriaceus 1429 |
| in Colombia 1551 on <i>Myotis oxyotis</i> , in Colombia 1551 | hydroxy-4-methyl-3-pentenyl)-, in Aedes aegypti, toxicity of 127 | Paralauterborniella spp. 2804 Paratanytarsus spp. 2804 |
| Ayonyssus decumani | 1,4-Naphthalenedione, 2-methyl-, in | Periplaneta americana 1268, 2050, |
| in Bulgaria 1778 | Periplaneta americana, for monitoring | 3003 |
| on small mammals, in Bulgaria 1778 | olfactory reactions 2326 | P. australasiae 1268 |
| Vertical distribution of 1778 Myonyssus gigas, in Bulgaria, not found | 1-Naphthalenesulfonamide, N-1,3- benzodioxol-5-yl-5-(dimethylamino)-, in | P. brunnea 1268 Phlebotomus argentipes 2816 |
| 1777 | Aedes aegypti, morphological effects of | P. papatasi 2816 |
| Ayonyssus ingricus | 1649 | P. sergenti 2816 |
| in Bulgaria 1778 on small mammals, in Bulgaria 1778 | 1-Naphthalenol, methylcarbamate (see Carbaryl) | Phormia regina 1411 Prosimulium exigens 1108 |
| vertical distribution of 1778 | 1-Naphthalenol, 2-methyl-, methylcarbamate, | Sarcophaga haemorrhoidalis 379 |
| Ayopsitta monaccha | in fowl, toxicity of 2256 | S. misera 1963 |
| Triatoma delpontei in nests of, in | Naphthol black, for staining Triatoma | Scaptomyza spp. 1960 |
| Argentina 493 T. infestans in nests of, in Argentina 493 | infestans Malpighian tubules 1536 narai, Ascoschoengastia | Simulium spp. 1553, 2454 S. aokii 851 |
| Ayospalax fontanieri, Minyctenopsyllus | nasalis, Gasterophilus | S. bidentatum 1367 |
| triangularus on, in Kansu Province 328 | Nasonia vitripennis | S. fulvinotum 1373 |
| Ayospila meditabunda preying on, Orthellia viridis 2164 | diapause in, effects of hormones on 1743 in USA 3179 | S. japonicum 850, 1367 S. metallicum 2822 |
| rearing of, diets for 2164 | insect growth regulators in, toxicity of | S. ornatum 1105 |
| nyoti, Spinturnix | 2173 | S. tobetsuense 851 |
| Ayotis, eastern equine encephalitis, virus in, | methoprene-contaminated hosts not | S. tuberosum 2819 |
| in New England 2304 Ayotis dasycnema, Acari on, in Poland | affecting 1707 methoprene in, toxicity of 1707 | Stenotabanus fulvistriatus 2496 Supella longipalpa 1268 |
| 935 | parasitising | Tabanus bromius 1406 |
| Ayotis daubentonii, Acari on, in Poland | Musca domestica, in North Carolina | T. dorsiger 2496 |
| 935 Ayotis hosonoi, Acanthophthirius hosonoi | 3179 Sarcophaga bullata 1707, 2173 | T. golovi 1406 T. laetitinctus 1406 |
| on, in Japan 2644 | Natural enemies | T. leleani 1406 |
| Ayotis macrodactylus | of arthropods | T. nigrovittatus 2530 |
| A canthophthirius iriei on, in Japan 2644 | Aedes spp. 1607 | Toxorhynchites spp. 1607 |
| A. spinipes on, in Japan 2644 Ayotis myotis, Acari on, in Poland 935 | A. aegypti 1606 A. albopictus 1606, 2357 | T. splendens 1606 Triatoma infestans 493 |
| Ayotis nattereri | A. caballus 341 | Uranotaenia spp. 1607 |
| Acanthophthirius simplex on, in Japan | A. caspius 2102 | Vespula acadica 631 |
| Acari on in Poland, 935 | A. chrysolineatus 1606 | Wyeomyia vanduzeei 1055 |
| Acari on, in Poland 935 Ayotis oxyotis, Myodopsylla tropica on, in | A. communis 782 A. dorsalis 2404 | of molluses Lymnaea truncatula 2293 |
| Colombia 1551 | A. melanimon 100 | book 2037 |
| Ayrica gale, repellent activity of extracts of | A. quasirusticus 1489 | of nematodes |
| 2262 Ayristic acid (see Tetradecanoic acid) | A. rupestris 1093 A. sierrensis 1864 | Nematodirus spathiger 19 |
| Ayrmecia pilosula | A. triseriatus 1335 | Ostertagia circumcincta 19 Romanomermis culicivorax 106 |
| allergens of 1506 | A. vexans 2404 | Trichostrongylus colubriformis 19 |

| · · · · · · · · · · · · · · · · · · · | | |
|---|--|--|
| Nature conservancy, mosquito control and | Nematoda contd. | Neotrichodectes mephitidis contd. |
| 1872, 1873 | Onchocerca contd. | on Mephitis mephitis |
| Nature reserves, mosquito control in 971 Nauphoeta cinerea | O. volvulus 15, 364, 474, 842, 846, 849, 854, 856, 1074, 1109, 1110, 1264, 1369, | in Indiana 57, 1256, 1527 in Texas 1530 |
| in new environments, variation in | 1505, 2133, 2147, 2148, 2265, 2452, | Neotrichodectes minutus |
| spontaneous behaviour of 2059 | 2453, 2458, 2729, 3078, 3127 | in USA 57, 1256, 1527 |
| juvenile hormones in, effects of 1525 | Ostertagia circumcineta 19 | on Mustela frenata, in Indiana 57, 1256, |
| mating in 2604, 3005 | Parafilaria bovicola 617 P. bovis 310 | 1527 |
| hormonal regulation of 746 | Pheromermis zaamini 1406 | Neotrichodectes thoracicus in USA 1530 |
| seducin in 1518 | Physocephalus sexalatus 1740 | on Bassariscus astutus, in Texas 1530 |
| sex pheromone of 2604 | Romanomermis communensis 782 | Neotrombicula autumnalis |
| sternal glands in 2604 tergal glands in 2604 | R. culicivorax 101, 104, 105, 106, 112, 141, 294, 521, 822, 1047, 1304, 1305, | biology of 2018 hosts of 2018 |
| nearcticus, Lynxacarus | 1370, 1626, 1865, 1891, 1900, 2375, | in Italy 969 |
| Nearctopsylla grahami | 2406, 2407, 2787, 2820, 2825 | on man, hypersensitivity to 969 |
| sp. nov., description of 1029 in Canada 1029 | R. nielseni 1304, 2393 Setaria labiatopapillosa 77 | Neotrombicula guptai sp. nov., description of 2231 |
| on Martes americana, in Ontario 1029 | Scara aciatopapinosa // | in India 2231 |
| Nearctopsylla princei | 0. 1. 61.1.11.1.00 | on rodents, in Uttar Pradesh 2231 |
| in USA 1028 on Mustela frenata, in Colorado 1028 | Stephanofilaria stilesi 77 Tetrameres mohtedai 2663 | Neotrombicula microti, on Zapus, in North America 1447 |
| neavei, Culex | Thelastoma aligarhica 2050 | Neotrombicula talmiensis |
| neavei, Simulium | Thelazia gulosa 1822 | in China 2638 |
| Nebraska, Aedes triseriatus in, viruses in | T. lacrymalis 3175 | on Apodemus agrarius, in China 2638 |
| 2380 nebulo, Musca domestica | T. rhodesi 77 T. skrjabini 1822 | on Apodemus speciosus, in China 2638 on Sciurus vulgaris, in China 2638 |
| nebulosus, Culex | Trichostrongylus colubriformis 19 | Neotrombicula whartoni |
| necrophori, Poecilochirus | Wuchereria bancrofti 131, 355, 474, 505, | in USA 2282 |
| Necrosis in horse, caused by Epicauta 402 | 550, 722, 779, 978, 1096, 1264, 1312, 1321, 2038, 2113, 2265, 2417, 2418, | on <i>Sylvilagus floridanus</i> , in Virginia 2282 |
| in man | 2735, 2746 | Neotrombicula zachvatkini |
| caused by Araneae 1221 | Nematodes | in Poland 1497 |
| caused by Cheiracanthium lawrencei | culture methods for 1657 | in USSR 639 |
| in vertebrates, caused by <i>Loxosceles</i> | in, insect rearing media, in Texas 1407 mosquito control using 468 | on Apodemus flavicollis, in Byelorussia 639 |
| reclusa 951 | non-target effects of 175 | on Clethrionomys glareolus, in Byelorussia |
| Nectomys squamipes, Polygenis bohlsi on, in | Nematodirus spathiger | 639 |
| Brazil 2085 neglectus, Rhodnius | in, sheep 19 preyed on by, <i>Leptocera vagans</i> 19 | on small mammals, in Poland 1497 seasonal abundance of 1497 |
| Neguvon (see Trichlorphon) | Nemopoda, in British Isles 2184 | neovishnui, Culex |
| nelsoni, Rhodacantha | nemorensis, Veigaia | Nepa cinerea, preying on, Culicidae 2126 |
| Nematicides, synonyms of 954 Nematocera, in Finland 2728 | Neo-Pynamin (see Tetramethrin) neoafricanus, Aedes | Nepal Demelinia multieningea in on Peaudois |
| Nematoda 175, 210, 341, 468, 851, 911, | Neocidol (see Diazinon) | Damalinia multispinosa in, on Pseudois 2065 |
| 1367, 1407, 1489, 1607, 1657, 1669, | Neohaematopinus semifasciatus | Haemaphysalis aponommoides in 1993 |
| 1817, 2306, 2404, 2427, 2695, 2894, 2950 | in USA 1800 | Ixodes acutitarsus in 1993 |
| Ackertia globulosa 1749 Acuaria spiralis 2663 | on Tamiasciurus hudsonicus, in Indiana 1800 | I. ovatus in 1993 mammals in, arthropod parasites of 1500 |
| Acugutturus parasiticus 3003 | Neolimnia | Ornithodoros coniceps in 1431 |
| Ascaris 1798 | biology of 1951 | Polistinae in 1174 |
| Brugia 550 B. malayi 345, 517, 792, 2371, 2405, | in New Zealand 1951 preying on, snails 1951 | Soriculopus nepalensis in, on Soriculus 3231 |
| 2735, 3078 | Neomesomermis flumenalis (see | nepalensis, Ancistropsylla |
| B. pahangi 16, 17, 345, 792, 1051, 1571, | Mesomermis flumenalis) | nepalensis, Soriculopus |
| 2419, 2735 Chandlerella quiscali 475 | Neopsylla, in China 1035 Neopsylla acanthina | Nepenthes madagascariensis, Uranotaenia spp. in pitchers of, in Malagasy Republic |
| Dipetalonema 474 | biotopes of 499 | 548 |
| D. caudispina 356 | in USSR 499 | Nepeta cataria, repellent activity of extracts |
| D. dessetae 2367 D. gracile 356 | on small mammals, in USSR 499 Neopsylla setosa | of 246 Nephropathia epidemica |
| D. perstans 978 | in USSR 2346 | causal agent, reservoirs of 2973 |
| D. rugosicauda 412, 2228 | on Citellus musicus, in Caucasus 2346 | role of arthropods in 995 |
| D. viteae 923, 1749, 2901 Dirofilaria 1291 | seasonal abundance of 2346 Neopynamin (see Tetramethrin) | Nepomorpha, preying on, Culicidae 1567 Nerol (see 2,6-Octadien-1-ol, 3,7-dimethyl-, |
| D. immitis 11, 86, 550, 1092, 1594, | Neoschoengastia americana | (Z)-) |
| 2405, 3085 | in USA 421 | Netherlands |
| Dracunculus medinensis 1224, 1803 Eurymermis 1406 | on turkeys, in USA 421 Neostylopyga rhombifolia | Blattaria in 1168 buildings in, arthropod pests in 315 |
| Gastromermis boophthorae 1371, 1372 | in India 1268 | Cheyletiella parasitivorax in, on rabbit |
| Gongylonema verrucosum 244, 1740 | parasites of, in India 1268 | 418 |
| Habronema muscae 77 | taxonomy of, oothecal characters for | Dermatophagoides pteronyssinus in, in |
| Hammerschmidtiella diesingi 2050 Heterotylenchus 2867 | Neotoma albigula, Triatominae in dens of, in | house dust 2565 Diptera in |
| H. autumnalis 386 | Arizona 66 | in dung 2503 |
| Isomermis benevolus 2822 | Neotoma cinerea, Cuterebra tenebrosa on, in | in mink dung 624 |
| Litomosoides carinii 2405 Mansonella ozzardi 505, 978 | Washington 1390 Neotoma fuscipes, Triatominae in dens of, in | Leporacarus gibbus in, on rabbit 418 Musca domestica in, natural enemies of |
| Mesomermis camdenensis 2819 | California 66 | 624, 2503 |
| M. flumenalis 2819, 2820 | Neotoma lepida, Triatominae in dens of, in | Ornithocheyletia hallae in, on pigeon |
| M. japonicus 850 M. paradisus 1108 | California 66 Neotoma micropus, Triatominae in dens of, | Pediculus capitis in, on man 1007, 1273 |
| Nematodirus spathiger 19 | in New Mexico 66 | Rhipicephalus sanguineus in, on dog |
| Octomyomermis muspratti 3038 | Neotrichodectes arizonae | 2912 |
| Onchocerca 77 O. armillata 2144 | in USA 1530 on Conepatus mesoleucus, in Texas 1530 | Sarcoptes scabiei in, on cattle 275 Tabanidae in 901 |
| O. cervicalis 849, 3078 | Neotrichodectes interruptofasciatus | Netherlands Antilles |
| O. dermata 846 | in USA 57, 1256, 1527, 1530 | Cochliomyia hominivorax in 629, 2687 |
| O. dukei 2144 | on Taxidea taxus | C. macellaria in 629 |
| O. gibsoni 2132 O. gutturosa 849, 2144, 3078 | in Indiana 57, 1256, 1527 in Texas 1530 | Sarcophagidae in 629 neumanni, Haemaphysalis (see H. |
| O. lienalis 2133 | Neotrichodectes mephitidis | longicornis) |
| O. ochengi 846, 2144, 2148 | in USA 57, 1256, 1527, 1530 | Neuritis, in man, caused by wasp sting 242 |

| 518 | |
|--|---|
| Neuroleptics (see Tranquilizing agents) | New Zealand contd. |
| Neuropteroidea, book 2994 | Neolimnia spp. in |
| New Brunswick New Brunswick | Ornithonyssus bur vulgaris 936 |
| Ceratophyllus calderwoodi in, in birds' | Psoroptes cuniculi |
| nests 1029 | Sarcoptes scabiei in |
| Culicidae in 1617 | Siphonaptera in |
| Diptera in, in prehistoric graves 217 | Vespula germanica |
| Simuliidae in 1111, 3119 Tabanidae in 3119 | Newfoundland Prosimulium mixto |
| New Caledonia | Simuliidae in 111 |
| Liatongus militaris in, introductions of | Simulium spp. in |
| 2375 Onthophagus gazellus in, introductions of | newyorkensis, Derma ni, Trichoplusia |
| 2375 | Nicaragua |
| Sisyphus spinipes in, introductions of | Anopheles albimar |
| New Guinea, Schoengastia spp. in 3221 | malaria in 2284 Siolimyia amazoni |
| New Hampshire, bat guano in, arthropods in | nicholsoni, Simulium |
| 1820 | Nicotiana rustica, re |
| New Hebrides Amblyomma cyprium in, on fowl 2207 | extracts of 246 nidi, Haemogamasus |
| Hister chinensis in, introductions of 2375 | nidiformes, Haemoga |
| New Ireland (see Bismarck archipelago) | niger, Ceratophyllus |
| New Jersey birds in, ectoparasites of 28 | <i>niger, Lasius</i> Nigeria |
| Culex tarsalis in 796 | Aedes spp. in |
| mammals in, ectoparasites of 28 | on man 334, 3 |
| mosquito control in 2397 New Mexico | viruses in 533 A. aegypti in, viru |
| carrion in, arthropods in 452 | A. dentatus in, vir |
| Diamanus montanus in 331 | Amblyomma varie |
| Hoplopsyllus anomalus in 331 Meringis spp. in 327 | 2596 Anopheles arabien |
| plague in 331 | on man 2096 |
| Psoroptes ovis in, on sheep 2555 | A. funestus in, vir |
| Triatoma protracta in, flagellates in 2705 Triatominae in, in Neotoma dens 66 | A. gambiae in 21 on man 2096 |
| New South Wales | Cricetomys gambia |
| Aedes rupestris in, natural enemies of | parasites of 3 |
| Calliphoridae in, on sheep 2506 | Culicidae in 3045 Culicoides spp. in |
| Damalinia bovis in, on cattle 2702 | viruses in 857 |
| Haematopinus eurysternus in, on cattle | entomological liter |
| 2702 Linognathus vituli in, on cattle 2702 | Glossina spp. in G. morsitans in |
| Lucilia cuprina in 596 | G. palpalis in 36 |
| on sheep 893, 895, 896, 897, 1938, | G. tachinoides in |
| 3165 meat in, pesticide residues in 2942 | Hyalomma spp. in livestock in, arthro |
| Simulium ornatipes in 563, 3120 | 2046 |
| Tracheomyia macropi in, on kangaroo 2860 | Simulium spp. in Werneckia spp. in |
| Vespula germanica in 404, 2535 | nigeriensis, Werneck |
| New York State | nigra, Spalangia |
| Aedes spp. in 2800 Bubo virginianus in, mites in nests of | nigra, Stomoxys nigricans, Formica |
| 1991 | nigricornis, Gasterop |
| Culicidae in, viruses in 147 | nigrinus, Aedes |
| Culiseta melanura in 1831 Falco sparverius in, mites in nests of | nigripalpis, Pteromic nigripalpus, Culex |
| 1991 | nigripes, Aedes |
| Ixodoidea in, on man 2621 | nigritarsis, Simulium |
| Lardoglyphus falconidus in, in kestrel nests 276 | nigriventris, Onthop nigroaenea, Spalangi |
| medical entomology in 1239, 2290 | nigrofusca, Glossina |
| Otus asio in, mites in nests of 1991 Phormia regina in, natural enemies of | nigrolimbatus, Poliei nigrolineatus, Derma |
| 1411 | nigrovittatus, Taban |
| Simuliidae in 189 | Nilaparvata lugens, 1 |
| Simulium tuberosum in, natural enemies of 2819 | Nilgai (see Boselaph nili, Anopheles |
| tularemia in 2621 | ninoi, Triatoma (see |
| veterinary entomology in 1239, 2290 | nippon, Palaeopsylla |
| New Zealand Austrosimulium australense in, on man | nipponica, Dolichove nipponii, Aedes vexa |
| 2145 | nitens, Anocentor |
| Chorioptes bovis in | Nitric acid |
| on goat 2001 on sheep 599 | calcium salt in Aedes triseria |
| Corvus frugilegus in, prey of 1396 | effects on larv |
| Damalinia ovis in, on sheep 599 | effects on ovi |
| deer in, arthropod parasites of 37 Haemaphysalis longicornis in | Nitrite, in Simulium water 843 |
| on cattle 3197 | Nitrofen (2,4-dichlo |
| on goat 2001 | nitrophenoxy)ber |
| insect pests in 2288 Latrodectus mactans in, on man 1459 | in Culicidae, mode in weeds, mode of |
| Linognathus vituli in, on cattle 757 | Niue, Musca domest |
| Melophagus ovinus in, on sheep 599 | niveus, Aedes |
| Mystacina tuberculata in arthropod parasites of 725 | nivipes, Anopheles nobilis, Ctenophthali |
| prey of 725 | nociva. Calliphora |

```
nnia spp. in 1951
onyssus bursa in, on Sturnus
paris 936
otes cuniculi in, on goat 2001
ites scabiei in, on man 2930
aptera in 769
la germanica in 404
dland
nulium mixtum in 2821
idae in 1113
um spp. in 2821
ensis, Dermacarus
oplusia
heles albimanus in 2284
ia in 2284
via amazonica in 603
ni. Simulium
a rustica, repellent activity of acts of 246
emogamasus
es. Haemogamasus
eratophyllus
sius
man 334, 3043
vnti in viruses in 3044
ntatus in, viruses in 334
vomma variegatum in, viruses in
neles arabiensis in 2101
man 2096
nestus in, viruses in 334
mbiae in 2101
man 2096
man 2096
tomys gambianus in, arthropod
trasites of 3212
dae in 3045, 3046
oides spp. in 3106
uses in 857
nological literature from 308
na spp. in 567
prsitans in 859
Ipalis in 367, 1386
chinoides in 367, 1386
mma spp. in, viruses in 2596 ock in, arthropod pests of 2045,
ium spp. in 562, 2824
sckia spp. in, on Funisciurus 1272
sis, Werneckia
palangia
omoxys
, Formica
is, Gasterophilus
 Aedes
is, Pteromicra
us, Culex
Aedes
is, Simulium
tris, Onthophagus
ea, Spalangia
ca, Glossina
batus, Polietes
atus, Dermacentor
atus, Tabanus
ata lugens, migration in 986
see Boselaphus tragocamelus)
pheles
riatoma (see T. eratyrusiformis)
Palaeopsylla
a, Dolichovespula saxonica
 Aedes vexans
nocentor
cid
m salt
Ledes triseriatus
ffects on larval development of
fects on oviposition of 160
in Simulium nyasalandicum breeding
   843
 (2,4-dichloro-1-(4-
phenoxy)benzene)
licidae, mode of action of 692
eds, mode of action of 692
usca domestica in 2375
1edes
Anopheles
Ctenophthalmus
Calliphora
```

```
Noctuidae
   control of, insecticides for 1465
   physiology of, Chinese research on 984
nocturnus, Aedes vexans (see A. vexans)
Nodamura virus, in, Aedes albopictus, persistence of 2760
Nonadecanoic acid, 2-ethyl-, against, Culex
    quinquefasciatus 1856
2.6-Nonadienoic acid, 9-(3.3-
     dimethyloxiranyl)-3,7-dimethyl-
   methyl ester
      in Diploptera punctata, regulation of
           synthesis of 2330
      in Nasonia vitripennis, effects on larval diapause of 1743
      in Nauphoeta cinerea, effects of 1525 in Ornithodoros parkeri, reversing precocene inhibition of oogenesis 2226
      in Rhodnius prolixus hemolymph,
developmental changes in 1275

2,6-Nonadienoic acid, 7-ethyl-9-(3-ethyl-3-
     methyloxiranyl)-3-methyl-
   methyl ester
      in mosquito cell lines, inhibition of
           protein and nucleic acid synthesis by
      in mouse cell lines, toxicity of 2033
      in Nasonia vitripennis
         effects on larval diapause of 1743 toxicity of 2173
      in Nauphoeta cinerea, effects of 1525
      in Periplaneta americana, metabolism of
      in Rhodnius prolixus, effects on egg
      production of 2067 in Rhodnius prolixus hemolymph,
      developmental changes in 12
in Sarcophaga bullata, effects on
parasites of 2173
parasites of 2113
in Trypanosoma theileri, inhibiting
multiplication 1388
2,6-Nonadienoic acid, 9-(3-ethyl-3-
methyloxiranyl)-3,7-dimethyl-
   methyl ester
in Nasonia vitripennis, effects on larval
diapause of 1743
       in Nauphoeta cinerea, effects of 1525
      in Rhodnius prolixus hemolymph,
in Khodnus prolixus hemolymph,
developmental changes in 1275
2,6-Nonadienoic acid, 8-(3-methoxy-3-
methyleyclopentyl)-3,8-dimethyl-, ethyl
ester, against, Pyrrhocoris apterus 705
Noradrenaline (see Levarterenol)
Norfolk Island, Simulium ornatipes in 564,
normanensis, Aedes
noroestensis, Anopheles (see A. metcalfi)
North Carolina
   Aedes sollicitans in, in dredgings 151
   A. taeniorhynchus in
      in dredgings 151
      in temporary pools 1895
   Blattella germanica in, in dwellings 1003
   Culicoides furens in, in salt marshes
        1358, 1359
   C. hollensis in, in salt marshes 1358,
        1359
   Musca domestica in
       in fowl houses 2183
       natural enemies of
                                  3179
North Dakota
   Ceratophyllus scopulorum in, in cliff-
        swallow nests 1028
Dermatophagoides pteronyssinus in, in house dust 2233
Sarcoptes scabiei in, on pig 2248
North Korea, Culicidae in 2100
Northern Territory, Culicoides spp. in, viruses in 358
Northway virus
       Aedes communis, replication of 2962
       Culiseta inornata, in Arctic Canada
           808
Norway
   Acari in 2205
   Acdes diantaeus in, viruses in 53
A. hexodontus in, viruses in 538
A. sticticus in, viruses in 538
                                               538
```

Culicidae in, viruses in 2965

Ixodes ricinus in 2600

Hydrotaea irritans in, on deer 3174

of

| lorway contd. | NRDC 143 (see Permethrin) | Octadecanamine, N,N-dimethyl-, against, |
|--|--|--|
| Ixodes ricinus in contd. | NRDC 149 (see Cypermethrin) | Psoroptes cuniculi, on rabbit 1218 |
| viruses in 249 | NRDC 157 (see Cyclopropanecarboxylic | Octadecanoic acid, in Tyrophagus |
| Ixodoidea in, viruses in 2965 | acid, 3-(2,2-dibromoethenyl)-2,2- | putrescentiae, incorporation of 1,3- |
| Sarcoptes scabiei in, on man 3214, 3215, | dimethyl-, (3-phenoxyphenyl)methyl | butanediol into 1975 |
| 3216 | ester, (1 <i>R-cis</i>)-) | 9,12,15-Octadecatrienoic acid, |
| losema algerae | NRDC 161 (see Cyclopropanecarboxylic | (9Z,12Z,15Z)-, in Culex pipiens diet, |
| in | acid, 3-(2,2-dibromoethenyl)-2,2- | requirement for 519 |
| Aedes aegypti | dimethyl-, cyano(3- | 9-Octadecenoic acid |
| effects on Plasmodium of 1910 | phenoxyphenyl)methyl ester, [1R- | 1,2,3-propanetriyl ester |
| pathogenicity of 2770 | $[1\alpha(S^*),3\alpha]]-)$ | in Lucilia sericata, toxicity of 399 |
| Anopheles albimanus, infectivity of 1334 | nubeculosus, Culicoides | in <i>Periplaneta americana</i> diet, uptake of |
| A. stephensi | Nucleic acids, in Tyrophagus putrescentiae, | in <i>Phormia terraenovae</i> , toxicity of |
| effects on Plasmodium of 1910 | incorporation of 1,3-butanediol into | 399 |
| in Tamil Nadu 2770 | 1975 | 9-Octadecen-1-ol, (Z)-, synthesis of |
| infectivity of 612 | Nucleosides, in Culex pipiens diet, | muscalure from 1144 |
| pathogenicity of 2770 | requirement for 133 | 2,6-Octadienal, 3,7-dimethyl- |
| Armigeres subalbatus, pathogenicity of | Nucleotides | Carpoglyphus lactis alarm pheromone |
| 2770 | in Culex pipiens diet, requirement for | 3223 |
| Culex quinquefasciatus, pathogenicity of | in Lawrence reclare veneral musification | in Aleuroglyphus ovatus 3223 |
| 2770 | in Loxosceles reclusa venom, purification | in Dermatophagoides farinae 3223 |
| spores of | of 291 | Lardoglyphus konoi alarm pheromone |
| cleaning of 178 | Nucleotidyltransferase, deoxyribonucleate, | 3223 36 Octobion 1 ol. 3.7 dimethod. (7) |
| preserving of 612 UV inactivation of 1334 | in Aedes aegypti, activity pattern of 1318 | 2,6-Octadien-1-ol, 3,7-dimethyl-, (Z)-, |
| WHO data sheet on 3040 | Numidilipeurus lawrensis tropicalis | Periplaneta americana |
| Nosema whitei | crop in 56 | octanol dehydrogenase (see Dehydrogenase, |
| in, Tribolium castaneum, infectivity of | hemocytes in 1006 | octanol) |
| 612 | in India 56, 1531 | octodecimdentata, Tarsopsylla |
| spores of, preserving of 612 | oenocytes in 2332 | octomaculatus, Trichodectes |
| Nosomma monstrosum | on fowl | Octomyomermis muspratti, WHO data sheet |
| in India 268, 646 | feeding by 3014 | on 3038 |
| on Asian buffalo | in Uttar Pradesh 1531 | Octopamine (α-(aminomethyl)-4- |
| in Jammu and Kashmir 646 | seasonal abundance of 1531 | hydroxybenzenemethanol) |
| in Punjab 268 | nuneztovari, Anopheles | in Atrax robustus venom 2660 |
| on Mus saxicola, in Jammu and Kashmir | nuttalli, Amblyomma nuttalli, Dermacentor | in Periplaneta americana |
| Nosopsyllus fasciatus | nuttalli, Laelaps | effects on fat-body cyclic AMP of 2699 |
| hosts of, transfer between 1032 | nuttalli, Xenopsylla | effects on fat-body trehalose of 2699 |
| in Czechoslovakia 1032 | Nuvan (see Dichlorvos) | Octosporea muscaedomesticae |
| in Spain 329 | Nuvanol N (see Iodofenphos) | in, Phormia regina, infectivity of 612 |
| on Apodemus sylvaticus, in Spain 329 | Nyamanini virus, in, Ornithodoros spp. | spores of, preserving of 612 |
| Vosopsyllus laeviceps | 2966 | Odagmia ornata (see Simulium ornatum) |
| in USSR 2348 | nyasalandicum, Simulium | Odagmia spinosa (see Simulium spinosum) |
| on Meriones, in USSR 2348 | Nyctalus lasiopterus | odibilis, Culicoides |
| on Rhombomys opimus, in USSR 2348 sex ratio in 502 | Acanthophthirius paranoctulius on, in Switzerland 1450 | Odocoileus hemionus |
| otata, Thaumatomyia | Ascoschoengastia mukoyamai on, in | Cephenemyia spp. on, in Texas 2264 Dermacentor albipictus on, in Texas |
| Noterus, insect growth regulators in, | Honshu 942 | 2264 |
| residues of 800 | Nyctalus noctula, Acanthophthirius | Symphoromyia spp. on, in California |
| Nothura, Aedes fluviatilis on, feeding by | paranoctulius on, in Switzerland 1450 | 873 |
| 964 | Nycteribiidae, on bats, in Poland 2642 | Odocoileus virginianus |
| Notoedres cati | Nycteridopsylla vancouverensis | Babesia microti in, not infective 1998 |
| control of, acaricides for 1446 | in USA 1028 | Ixodes dammini on, in Massachusetts |
| in Japan 2010 in USA 1446 | on bat, in Colorado 1028 nyssa, Simulium | 1998 Ixodoidea on, in Texas 1202 |
| on cat, in Japan 2010 | Nystatin | Psoroptes cuniculi on, effects of 674 |
| on man, in Japan 2010 | with framycetin, fusidic acid, and | Tricholipeurus spp. on, in Indiana 1527 |
| on Uncia uncia | prednisolone | T. lipeuroides on |
| effects of 1446 | against | in Indiana 57 |
| in San Antonio Zoo 1446 | Otodectes cynotis | in Texas 1530 |
| Notonecta, on man, bites by 1567 | on cat 416 | T. parallelus on |
| Notonecta glauca, preying on, Culicidae | on dog 416 | in Indiana 57 |
| 2126 | Oak (see Quercus) | in Texas 1530 |
| Notonecta unifasciata cannibalism in 99 | obsoletus, Chrysops obtuspina, Palaeopsylla | Odonata endosulfan in, toxicity of 1374 |
| in USA 98 | occidentalis, Hystrichopsylla | glycogen in, reserves of 2536 |
| in ponds, effects of insecticides on 98 | occitanus, Buthus | in ponds, effects of insect growth |
| Plea striola not preying on 1894 | occitanus, Listrophorus | regulators on 2482 |
| preying on | oceanicus, Aedes | preying on |
| Culex quinquefasciatus 99 | ocellatus, Culex (see C. bitaeniorhynchus) | Culicidae 2126 |
| C. tarsalis, in California 98 | Ochotona, Amphipsylla vinogradovi on, in | Romanomermis culicivorax 106 |
| Notonectidae | Qinghai Province 1036 | Odontacarus unisetosa |
| preying on | Ochotona thibetana, Amphipsylla | sp. nov., description of 1788 |
| Culicidae 1567 Plea striola, in California 1894 | quadratoides on, in Yunnan Province | in Papua New Guinea 1788 on Rattus ruber, in Papua New Guinea |
| Nova Scotia | ochraceum, Simulium | 1788 |
| Culicidae in 1617 | ochripes, Leptocera (Limosina) | on Rattus verecundos, in Papua New |
| Dermacentor variabilis in 258, 2558 | ochripes, Limosina (see Leptocera ochripes) | Guinea 1788 |
| on Lepus 3192 | Ochthera, taxonomy of 1410 | Odontopsyllus multispinosus |
| on small mammals 928, 2559 | Ocimum canum, insecticidal activity of | in USA 2282 |
| Haemaphysalis leporispalustris in, on | mucilaginous seeds of 2120 | on Sylvilagus floridanus, in Virginia |
| Lepus 3192 | Ocimum sanctum, repellent activity of | 2282 |
| Ixodoidea in 1816 | extracts of leaves of 786 | Odontopsyllus quirosi |
| mites in 1816 | 9,12-Octadecadienoic acid | biometrics of 1482 |
| Phthiraptera in 1816 Simuliidae in 1111 | (9Z,12Z)- attractant for | in Spain 1482, 1494 on Lepus capensis, in Spain 1482 |
| Siphonaptera in 1816 | Musca domestica 208 | on rabbit, in Spain 1482 |
| novaeguineae, Triatoma (see T. leopoldi) | Muscina stabulans 208 | seasonal abundance of 1494 |
| ovoniveus, Aedes | coattractant for, Hippelates spp. 208 | Oeciacus hirundinis |
| ovus, Eulaelaps | in Culex pipiens diet, not required 519 | in Hungary 1543 |
| novine Contraroidae | in fly attractants 2876 | in hirds' nests in Hungary 1543 |

| Oedemagena tarandi control of, insecticides for 1124 | OMS-2000 (see Fenvalerate) Onchocerca, in, Simuliidae, in Uzbekistan 77 | Onitis alexis in cattle dung, for fly control 1145 in dung, for fly control 1169, 2501 |
|--|---|--|
| in USSR 1124 on reindeer, in USSR 1124 | Onchocerca armillata | preying on, dung-breeding flies 2156 |
| Oedemeridae in Ryukyu Islands 711 | cattle, in Togo 2144 | Onitis vanderkelleni, in dung, for fly contraction 2501 |
| on man, dermatitis caused by 711 | Simulium spp., in Togo 2144 | <i>onoi, Eulaelaps</i> Ontario |
| oenomydis, Hoplopleura Oestridae | Onchocerca cervicalis in | Culex pipiens in, in catch basins 2382 |
| feeding behaviour in 610 hosts of 610 | Aedes aegypti, infectivity of 3078 Culicoides nubeculosus, development of | C. restuans in, in catch basins 2382 Dermacentor albipictus in, on Alces |
| on mammals, in Poland 2473 | 849 | 2590 |
| on man, in Italy 969 parasitic, book 2950 | onchocerca dermata 846 | Hybomitra pechumani in 222 H. typhus in 222 |
| Oestrus descriptions of 2474 | Onchocerca dukei in | Nearctopsylla grahami in, on Martes |
| on antelope, in Africa 2474 | cattle, in Togo 2144 | Sarcoptes scabiei in, on man 2921 |
| on man, affecting eyes 1241 Oestrus ovis | Simulium spp., in Togo 2144 Onchocerca gibsoni, in, Culicoides marksi, | Onthophagus, in horse dung, in Queenslan |
| control of 2044, 2471, 3138 timing of 576 | transmission of 2132 Onchocerca gutturosa | 911 Onthophagus aenescens |
| in Iraq 2472 | in | in Bangladesh 2192 |
| in Libya 3138 in Mongolia 2044 | Aedes aegypti, infectivity of 3078 cattle, in Togo 2144 | in dung, in Bangladesh 2192 Onthophagus bifasciatus |
| in USSR 576, 2471 | Simulium spp., in Togo 2144 | in Bangladesh 2192 |
| in West Germany 2155 on dog, in West Germany 2155 | S. ornatum, development of 849 microfilariae of, cryopreservation of 849 | in dung, in Bangladesh 2192 Onthophagus binodis |
| on man in Iraq 2472 | Onchocerca lienalis, in, Culicoides nubeculosus, development of 2133 | in cattle dung, for fly control 1145 in dung, for fly control 1169 |
| in Libya 3138 | Onchocerca ochengi | Onthophagus ferox in Australia 1169 |
| on sheep assessing infestations of 576 | cattle, in Togo 2144 | in dung, in Western Australia 1169 |
| in Mongolia 2044 in USSR 2471 | Simulium spp., in Togo 2144 S. sanctipauli, development of 846 | Onthophagus foliaceus, in dung, for fly control 2501 |
| seasonal abundance of 3138 | vectors of 2148 Onchocerca volvulus | Onthophagus gazellus in Australia 2842 |
| Ohio Dermatophagoides farinae in, in house | control of, vector control for 1109, 2147, | in New Caledonia, introductions of 23 |
| dust 2566, 2567 D. pteronyssinus in, in house dust 2566, | 2453, 3127 epidemiology of 1264 | in Solomon Islands, introductions of 2842 |
| 2567 | in | in cattle dung, for fly control 1145, 11 |
| sarcoptes scabiei in, on man 3218 | Aedes aegypti, infectivity of 3078 Culicoides nubeculosus, not developing | in dung and biological control using, in |
| Oil, diesel, with linseed oil, against, Anopheles spp. 2757 | 2133 man | Arkansas 2200 for fly control 1169 |
| Oil, fuel (see Fuel oil) Oils | distribution pattern of 856 in Burundi 854 | in horse dung, effects on nematodes of 911 |
| against | in Cameroon 1074 | Onthophagus granulatus |
| Aedes taeniorhynchus, in ponds 1605 Anopheles spp. 2755 | in Congo 842 in Ghana 2147 | in Australia 911, 2570 in cattle dung, in Australia 2570 |
| A. maculatus 531 | in Upper Volta 2147 | in horse dung, in Queensland 911 |
| Culex peus, in catch basins 114 C. quinquefasciatus, in catch basins | in Volta River Basin 1109, 1110 in West Africa 3127 | Macrocheles glaber on, dispersal of 25 Onthophagus nigriventris, in dung, for fly |
| 114 Culicidae 1300 | Simulium spp. in Congo 842 | control 2501 Onthophagus oklahomensis, in USA 1740 |
| in ponds, non-target effects of 1605 | transmission of 2458 S. damnosum | Onthophagus ramosellus |
| Okhotsk virus, in, Ixodidae, in USSR 2963 Oklahoma | in Volta River Basin 1110 | in Bangladesh 2192 in dung, in Bangladesh 2192 |
| Amblyomma americanum in on Bos indicus × B. taurus 1194 | in West Africa 2453 transmission of 1109, 1264 | Onthophagus sagittarius in Australia 2842 |
| on cattle 1193, 1194, 2553, 2907 | S. lineatum, development of 1369 | in Solomon Islands, introductions of |
| on zebu 1193, 2907 A. maculatum in, on cattle 2553 | S. metallicum, development of 15, 364 S. ochraceum, development of 15, 364 | 2842 Onthophagus taurus, in dung, and biologic |
| Epicauta spp. in, on horse 402 Latrodectus mactans in, natural enemies | S. ornatum, development of 849, 1369 S. sanctipauli, development of 846 | control using, in Arkansas 2200 Onthophagus triceratops |
| of 2025 | S. sanguineum, uptake from man of | in Bangladesh 2192 |
| Leptocera vagans in, in feedlots 3155 oklahomensis, Onthophagus | 856 S. sirbanum | in dung, in Bangladesh 2192 Onthophagus tuberculifrons, in USA 244 |
| okumensis, Culicoides (see C. actoni) Olea europaea (see Olive) | in Volta River Basin 1110 in West Africa 2453 | Onychomys leucogaster, Meringis disparal. on, in New Mexico 327 |
| Oleyl alcohol (see 9-Octadecen-1-ol, (Z)-) | microfilariae of, cryopreservation of 849 | Ooencyrtus trinidadensis venatorius |
| Oligomycin, in Musca domestica, inhibition of ATPase by 1324 | research on 2265 vectors of 474, 2148, 2452 | competing with, Telenomus costalimai |
| Olivaceus, Polistes Olive (Olea europaea) | dams as affecting 2729 Onchocerciasis | intraspecific competition in 2072 parasitising, Rhodnius prolixus 2072 |
| Olive groves, Aedes sierrensis in, dispersal of 3094 | agricultural development and, review 2458 | opaca, Wohlfahrtia vigil |
| Olive oil, in Phormia terraenovae, toxicity of | dams as affecting 2729 | Ophion luteus in Japan 712 |
| 399 Ommatoiulus moreletii | WHO work on 1505 Oncopeltus fasciatus, control of, growth | on man, stings by 712 Ophthalmopsylla volgensis abnorma (see C |
| in Australia 8 | regulators for 1393 | v. volgensis) |
| in dwellings, in South Australia 8 OMS-12 (see Phosphoramidothioic acid, O- | Ondatra zibethica, Hoplopleura ondatraria on, in China 2335 | Ophthalmopsylla volgensis volgensis in USSR 1031 |
| (2,4-dichlorophenyl) O-ethyl ester) OMS-29 (see Carbaryl) | ondatrae, Zibethacarus ondatraria, Hoplopleura | on jerboa, in USSR 1031 Ophyra aenescens |
| OMS-43 (see Fenitrothion) | Onion (Allium cepa) | control of |
| OMS-570 (see Endosulfan) OMS-786 (see Temephos) | aristolochic acid in, effects on chromosomes of 2864 | growth regulators for 2494 insecticides for 2494 |
| OMS-1197 (see Chlorphoxim) OMS-1331 (see 1H-Inden-4-ol, 2,3-dihydro- | Oniscoidea, Aedes sierrensis eggs not eaten by 1885 | in USA 1704, 2494 in fowl dung, in Kentucky 2494 |
| 1,1-dimethyl-, methylcarbamate) | Oniticellini, descriptions of 2203 | in pig confinement housing, in Texas |
| OMS-1394 (see Bendiocarb) OMS-1424 (see Pirimiphos-methyl) | Oniticellus fulvus, larvae of 2203 Onitini, in Ethiopian region 1966 | 1704 nutrition of 908 |
| OMS-1825 (see Azamethiphos) | Onitis, in Ethiopian region, book 1966 | seasonal abundance of 1704 |

| | | J#1 |
|--|--|--|
| Ophyra leucostoma | Ornithodoros denmarki | Orthellia contd. |
| in Netherlands 624, 2503 | Farallon virus in, in North America | in cattle dung, effects on bacteria and |
| in mink dung, in Netherlands 624, 2503 | 2974 | fungi of 2989 |
| preying on, <i>Musca domestica</i> , in Netherlands 624, 2503 | Hughes virus in, in North America 2974 Raza virus in, in North America 2974 | Orthellia caesarion (see O. viridis) Orthellia viridis |
| Opiliones, preying on, molluscs 2037 | Ornithodoros erraticus | in USA 1724 |
| pimi, Polyplax | distribution of 457 | in cattle dung, in California 1724 |
| Opisodasys pseudarctomys | hygienic importance of 457 | parasites of, in California 1724 |
| feeding behaviour in 1288 | Ornithodoros hermsi | predators of, in California 1724 |
| in USA 1288 | Borrelia spp. in, transmission of 2615 | preyed on by, Myospila meditabunda |
| pisthopus, Culex | in USA 2615 | 2164 Outhors (see Assubate) |
| pok, Aedes Opossum, Rhodnius pallescens on, in | Ornithodoros kelleyi in USA 2304 | Orthene (see Acephate) Orthocladiinae, taxonomy of 1408 |
| Panama Canal Zone 21 | on bat, in New England 2304 | Orthopodomyia, in France 177 |
| Drange G, with aniline blue, for staining | Ornithodoros lahorensis | Orthopodomyia pulchripalpis |
| cuticular growth layers in thoracic | distribution of 457 | in Spain 1490 |
| phragma of Glossina 566 Orbivirus, in, Culicoides spp., in South | enzymes in 1748, 2610 hygienic importance of 457 | in tree holes, in Spain 1490 |
| Africa 3105 | lysozyme in, bactericidal activity of 1748 | Orthoptera glycogen in, reserves of 2536 |
| Orchards | Ornithodoros maritimus | in Fennoscandia 51 |
| Culicidae in, in California 95 | in UK 2592 | Orycteropus afer, Ixodidae on, in Sudan |
| Phlebotomus spp. in, in Uzbekistan 2137 | Soldado virus in 2974 | 2007 |
| Orchopeas howardii in USA 1256 | in Wales 2592 | Orycteroxenus merriami |
| on Procyon lotor, in Indiana 1256 | taxonomy of, misidentified as <i>O. coniceps</i> 1431 | sp. nov., description of 413 in USA 413 |
| Dregon | Ornithodoros marocanus (see O. erraticus) | on Sorex merriami, in Oregon 413 |
| mites in, on voles 2232 | Ornithodoros moubata | Oryctolagus cuniculus |
| Orycteroxenus merriami in, on Sorex | aggregation pheromone in 2580 | Echidnophaga myrmecobii on, distribution |
| 413 Orgyia postica | Dipetalonema viteae in experimental infection with 923 | pattern of 500 |
| in Japan 710 | transmission of 1749 | E. perilis on, distribution pattern of 500 Orygma, in British Isles 2184 |
| on man, effects of 710 | enzymes in 1748, 2610 | Oryza sativa (see Rice) |
| Oribatei | immune responses of hosts to 729 | Oryzomys, Polygenis frustratus on, in Brazil |
| Anoplocephalidae in, development of | integument in, water-vapour diffusion | 771 |
| 2011 in Nagaland 1797 | through 2982 lysozyme in, bactericidal activity of 1748 | Oryzomys eliurus Cuterebra apicalis on, in Brazil 205 |
| in Norway 2205 | on fowl, in East Africa 2585 | Polygenis bohlsi on, in Brazil 2085 |
| in house dust, in Brazil 1453 | on Meriones unguiculata, hypersensitivity | Ostertagia circumcincta |
| in Otus asio nests, in New York 1991 | to 1749 | in, sheep 19 |
| Oriental region, Tabanidae in 2888 | on mouse, immunity to 267 | preyed on by, Leptocera vagans 19 |
| orientalis, Blatta (Blattella) orientalis, Blattella (see Blatta orientalis) | on pig, immunity to 267 on rabbit, immunity to 267 | Ostracoda |
| orientalis, Ctenophthalmus | group of, taxonomy of 2585 | insecticides in, toxicity of 803 preying on, Romanomermis culicivorax |
| orientalis, Culicoides | Ornithodoros moubata porcinus, moulting | 106 |
| prientalis, Hystrichopsylla | hormones in 1984 | ostsibirica, Leptopsylla (see |
| orientalis, Phlebotomus langeroni | Ornithodoros muesebecki, Zirga virus in, in | Peromyscopsylla ostsibirica) |
| orientalis, Vespa | Asia 2974 | ostsibirica, Peromyscopsylla (Leptopsylla) |
| ornata, Eulalia ornata, Odagmia (see Simulium ornatum) | Ornithodoros papillipes (see O. tholozani) Ornithodoros parkeri, oogenesis in, role of | oswaldoi, Anopheles Oterna (see Thiodicarbonic diamide |
| ornatipes, Simulium | JH in 2226 | ([(H ₂ N)C(S)] ₂ S), tetraethyl-) |
| ornatum, Simulium (Odagmia) | Ornithodoros porcinus porcinus (see O. | Otitis externa |
| Ornithocheyletia hallae | moubata porcinus) | in cat, caused by Otodectes cynotis 1210 |
| control of, acaricides for 2242 in Netherlands 2242 | Ornithodoros savignyi development in, relation of blood-feeding | in dog, caused by <i>Otodectes cynotis</i> 1210, 2243 |
| on pigeon, pruritus caused by 2242 | and 1428 | Otobius megnini |
| Ornithodoros | proteins in 253 | in Bolivia 1992 |
| Borrelia spp. in, transmission of 2615 | Ornithodoros tartakovskyi, Dipetalonema | in USA 2264 |
| cuticle surface in 2612 | viteae in, morphology of 2901 | life-cycle of 1764 |
| neotrichoidal chaetom in 2612 predators of 1429 | Ornithodoros tholozani aggregation pheromone in 2580 | on Ammotragus lervia, in Texas 2264 on cattle, distribution pattern of 1992 |
| Ornithodoros amblus, Punta Salinas virus in, | enzymes in 1748, 2610 | Otodectes cynotis |
| in South America 2974 | fecundity in 2562 | control of, acaricides for 415, 416, 1210 |
| Ornithodoros boliviensis, aggregation | lysozyme in, bactericidal activity of 1748 | descriptions of 2243 |
| pheromone in 2580 | mating in 2562 | in Japan 2243 in UK 415 |
| Ornithodoros capensis aggregation pheromone in 2580 | Ornithodoros verrucosus, Borrelia caucasica in 3199 | on cat, otitis externa caused by 1210 |
| Aransas Bay virus in, in Texas 2622 | Ornithonyssus bacoti | on dog |
| in USA 2622 | control of, acaricides for 286 | in Honshu 2243 |
| Soldado virus in 2974 | in USSR 286 | otitis externa caused by 1210 |
| complex of 1431 | Litomosoides carinii in, transmission of 2405 | on ferret, in England 415 |
| arboviruses in 2966 Hughes viruses in 2974 | on mouse, in USSR 286 | Otus asio, mites in nests of, in New York |
| Ornithodoros concanensis | Ornithonyssus bursa | Ouabain |
| host-locating behaviour in 2212 | in New Zealand 936 | in Musca domestica, not affecting |
| temperature responses in 1766 | on Sturnus vulgaris, in New Zealand 936 | secretion by Malpighian tubules 3178 |
| Ornithodoros coniceps distribution of 1431 | seasonal biology of 936 Ornithonyssus sylviarum | in Rhodnius prolixus, inhibiting effects of JH on ovaries 65 |
| hosts of 1431 | acaricide resistance in, in USA 421 | oudemansi, Eulaelaps |
| in Iran 2903 | biology of 1829 | oudemansi, Walchiella |
| in pigeon nests, in Iran 2903 | control of 1829 | ovale, Amblyomma |
| on man, effects of bite by 1431 | acaricides for 2922, 2928 | ovatus, Aleuroglyphus |
| taxonomy of, Ornithodoros maritimus misidentified as 1431 | in USA 421, 1829, 2922, 2928 on fowl | ovatus, Ixodes Overcrowding factors, larvicidal activity of |
| viruses in 1431 | effects of steroids on 941 | analogues of 1855, 1856 |
| Ornithodoros coriaceus | effects of stress on 941 | ovinus, Melophagus |
| African swine fever virus in, transmission | effects on body weight of 2023 | Ovis aries (see Sheep) |
| of 3204 | effects on egg production of 420, 2023 in Arkansas 2922 | ovis, Chorioptes (see C. bovis) ovis, Damalinia |
| aggregation in 2580 in USA 1429 | in California 2928 | ovis, Damannia ovis, Demodex |
| on cattle, role in enzootic abortion of | in USA 421, 1829 | ovis, Oestrus |
| 1437 | ornithophilia, Cnephia | ovis, Psoroptes |
| preyed on by, Phidippus rimator, in | Orthellia 1721 | ovis, Sarcoptes (see S. scabiei) |
| California 1429 | in Thailand 1731 | Owl, great horned (see Bubo virginianus) |

Owl, screech (see Otus asio) Owl. short-eared (see Asio flammeus) 11-Oxabicvclo[8,1,0]undec-5-ene, 1-methyl-7methylene-4-(1-methylethyl)-, (E)-(-)-, biomimetic reactions of 2064 4-Oxa-2-thia-3-phospha-1-stannahexane, 1,1,1-tricyclohexyl-5-methyl-3-(1methylethoxy)-, 3-sulfide, against, Psoroptes ovis, on sheep 2555 1,3,2-Oxazaphospholidine, 2-methoxy-4-(1methylethyl)-, 2-sulfide, (45)-, insecticidal activity of 1463 1,3,2-Oxazaphospholidine, 2-methoxy-4-(2methylpropyl)-, 2-sulfide, (4S)-, insecticidal activity of 1463 Oxidase in Aedes aegypti, role in DDT resistance of 1562 mixed function in Anopheles, role in insecticide resistance of 2364 in Musca domestica role in diflubenzuron resistance of 903 role in trichlorphon resistance of 882 Oxidase, aldehyde, in Anopheles aquasalis, genetics of 1913 Oxidase, cytochrome, in Stomoxys calcitrans pupae 1714 Oxidase, proline (see Reductase, pyrroline-5-carboxylate)
Oxirane, 2-ethyl-3-[3-ethyl-5-(4ethylphenoxy)pentyl]-2-methyl- (see Epofenonane)
Oxirane, 3-[5-(4-ethylphenoxy)-3-methyl-3-pentenyl]-2,2-dimethylagainst, Hypoderma spp., on cattle in cattle, effects on bacteria in warbles Oxybelus similis in USA 1724
preying on, dung-breeding flies, in
California 1724 California 1/24
Oxygen, in Anopheles nuneztovari breeding water, diurnal variation in 3069 Oxygenase, kynurenine 3-mono-, in Lucilia cuprina, relation of eye colour mutants and 2493 Oxygenase, monophenol monoin Phormia terraenovae activity pattern of 2497 effects of growth regulators on 2497 Oxygenase, promonophenol mono-, in Musca domestica pupae, inhibitor of activation of 2522 Oxygenase, tryptophan mono-, in Lucilia cuprina, relation of eye colour mutants and 2493 Oxygenase, tryptophan 5-mono-, in Periplaneta americana, inhibited by 4chlorophenylalanine 2053 Oxysarcodexia aurifinis, in Brazil 2856 Oxysarcodexia confusa, in Brazil 2856 Oxysarcodexia culminata, in Brazil 285 2856 Oxysarcodexia culminiforceps (see O. culminata) Oxysarcodexia paulistanensis, in Brazil 2856 Oxytelinae flight activity in 2892 in dung, in Finland 2892 Oxytetracycline against Anaplasma spp. 1192 A. mesaeterum 651 formulations of, slow-release bolus Oyster, Bacillus thuringiensis in, not pathogenic 551 pachyceras, Symphoromyia Pachycrepoideus vindemiae in USA 3179 parasitising, Musca domestica, in North Carolina 3179 Pachylister chinensis (see Hister chinensis) pachysternus, Laelaps Paederus fuscipes in Italy 969 in Japan 711 on man, dermatitis caused by 711, 969

in horse, caused by Epicauta 402 in man caused by Dracunculus medinensis 1803 caused by Latrodectus mactans bite 280 caused by Lepidoptera 710 caused by Ornithodoros coniceps 1431 caused by urticating hairs of Lepidoptera 1736 Pakistan Anopheles culicifacies in 811, 2364, 3062 A. stephensi in 129 A. subpictus in 2121 Argas persicus in, bacteria in 1996, 3193 Culex quinquefasciatus in 2395 C. tritaeniorhynchus in 1354, 1920 filth-breeding flies in, natural enemies of 2986 Haematopinus tuberculatus in, on Asian buffalo 61 leishmaniasis in 2450 Phlebotomus spp. in 2450
Palaearctic region, Tabanidae in 2514
Palaeopsylla, in China 1033
Palaeopsylla longidigita sp. nov., description of 1033 in China 1033 on Soriculus hypsibius, in Szechwan Province 1033 Palaeopsylla nippon in Japan 718 on *Crocidura orii*, in Ryukyu Islands Palaeopsylla obtuspina sp. nov., description of 1033 in China 1033 on Apodemus agrarius, in Szechwan Province 1033 on Soriculus hypsibius, in Szechwan Province 1033 Palaeopsylla remota, in China 1033 Palaeopsylla soricis scobina, in Bulgaria palestinensis, Sergentomyia
pallens, Culex pipiens
pallens, Haematopota
pallescens, Rhodnius
pallicera, Glossina
pallida, Trombicula (see Leptotrombidium pallidum) pallidipennis, Culicoides (see C. imicola) pallidipennis, Triatoma pallidipes, Glossina pallidum, Leptotrombidium (Trombicula) Palmitic acid (see Hexadecanoic acid)
Palmitoleic acid (see 9-Hexadecenoic acid, (Z)-)
palpale, Leptotrombidium (Trombicula)
palpalis, Glossina
palpalis, Trombicula (see Leptotrombidium palpale) Palpomyiinae in USSR 554 larvae of 554 paludis, Anopheles Palyam viruses, in, Culicoides spp., in Kenya 2443 Kenya pamiricus, Culicoides Panama Amblyomma ovale in, on man Anopheles albimanus in 2364 3200 Culex taeniopus in, viruses in 2368 Culicidae in 2401 medical entomology in Rhodnius pallescens in 21, 3024 Siolimyia amazonica in 603 Pandanus, Culicidae in axils of, in Philippines 1312 Panstrongylus chinai descriptions of 1276 Trypanosoma cruzi in, transmission of 1276 Panstrongylus geniculatus in Brazil 2078 in Venezuela 69 traps for 69 Trypanosoma cruzi in, in Brazil 2078 Panstrongylus megistus behaviour in 492 biology of 1277 colony development in 2069

control of, insecticides for descriptions of 1276 dispersal of 2070 enzymes in 489 habitats of 1015 in Brazil 67, 68, 961, 1015, 1018, 2069, 2070 in dwellings, in Brazil 68 in fowl houses, in Brazil 1015 in poultry houses, in Brazil 2069, 2070 moulting in, neurosecretory regulation of 1020 on man, in Brazil 961 ovarian development in, regulation of rearing of, techniques for 1668 red-eyed mutant of 1018 Trypanosoma cruzi in in Brazil 68 transmission of 1276 Panstrongylus rufotuberculatus descriptions of 1276 in Brazil 1279 Trypanosoma cruzi in, transmission of Pantala flavescens in USA 2857 preying on, Cochliomyia hominivorax, in Texas 2857 Panthera leo, Ixodidae on, in Assam 48 panzeri, Ectobius papatasi, Polebotomus
papillipes, Ornithodoros (see O. tholozani)
Pappogeomys castanops, Geomydoecus expansus on, in Texas 1530 Papua New Guinea Anopheles farauti in 1917 Ascoschoengastia spp. in, on Marsupialia Chrysomya spp. in 589 C. bezziana in, on cattle Culex axillicolus in 1580 C. edwardsi in 1635 Culicoides orientalis in 3108 Guntheria scrobiculata in, on Peroryctes 1786 Odontacarus unisetosa in, on Rattus 1788 Schoengastia spp. in 3221 Trombiculidae in, on mammals Papuan subregion, Culex spp. in papuana, Haemaphysalis papuensis, Lucilia par, Sarcophaga Para (see Pyrethrins)
Parabuthus liosoma in Saudi Arabia 1234 on man, in Saudi Arabia Paraceras brevimanubrium sp. nov., description of 2343 in China 2343 on Rattus edwardsi, in China 2343 paradoxa, Polyplax Paradoxiphis, on Bolboceratini, in Australia Paradoxopsyllus, on gerbil 1021 Paradoxopsyllus magnificus in China 2342 on Pitymys leucurus, in China 2342 on Pitymys leucutus, in China 2342 on Pitymys leucutus, in China 2342 paraensis, Culicoides Paraffin, portable spraying device for 959 Parafilaria bovicola Musca lusoria, transmission of 617 M. xanthomelas, escape from mouthparts of 617 Parafilaria bovis Musca lusoria, transmission of 310
M. xanthomelas, transmission of 310
Parafilm, feeding of mosquitoes through 1554 Paraguay Atta vollenweideri in, in cattle pastures 2202 Triatominae in, in dwellings

Paralauterborniella

on rice, in California 2804

| | | 223 |
|---|--|--|
| Paralauterborniella contd. preyed on by, Hydrophilidae, in California | Parathion-methyl (O,O-dimethyl O-(4-nitrophenyl) phosphorothioate) | Pastures, irrigated Aedes nigromaculis in, in California 115, |
| 2804 Paralauterborniella subcincta | against Menacanthus stramineus, on fowl | 1611, 1866 Culex tarsalis in, in California 1866 |
| in USA 2491 in flood-control channels, diel drift of | 1532 Menopon gallinae, on fowl 1532 | Culicidae in, in California 96 mosquito control in |
| 2491 | Paratrechina fulva | Bacillus thuringiensis for 3066 |
| parallelus, Santalus parallelus, Tricholipeurus | in Canada 2204 in hothouses, in Manitoba 2204 | drainage for 1611 |
| Paralucilia wheeleri | Paratriatoma hirsuta | pyrethroids for 115 patagonica, Triatoma |
| in USA 2850 | in USA 66 in Neotoma dens, in USA 66 | Pathogens |
| on Procyon lotor, in California 2850 Paralysis (see also Tick paralysis) | Paravespula germanica (see Vespula | genetic improvement of 2277 reservoirs of 974 |
| in Sarcophaga argyrostoma, caused by | germanica) Paresis, in Urocyon cinereoargenteus, | pattoni, Geomydoecus paucidentatus, Culicoides (see C. longidens) |
| scorpion venom 1222 Paramar (see Parathion) | caused by Dermacentor variabilis 2006 | paulistanensis, Oxysarcodexia |
| Paramushir virus, in, Ixodidae, in USSR | Parinsect (see Pyrethrins) Pariodontis riggenbachi wernecki | pavlovskyi, Ixodes pavlovskyi, Laelaps |
| 2963 Paraneopsylla, in China 1035 | in China 2343 | paykulli, Plexippus |
| paranoctulius, Acanthophthirius | on Cuon dukhunensis, in China 2343 on Hystrix leucura, in China 2343 | Pear, avocado (see Avocado) peccator, Culex |
| Paranoplocephala variabilis, in, Oribatei, | parkeri, Ornithodoros | pechumani, Hybomitra |
| development of 2011 Paraoxon (diethyl 4-nitrophenyl phosphate) | Parker's Farm virus, in, Culicidae, in Queensland 3084 | pecorum, Gasterophilus Pederine, in Paederus fuscipes 711 |
| against, Musca domestica 2668 | Parkinsonism, in man, wasp sting causing | Pediculoides ventricosus auct. (see Pyemotes |
| resistance to, in, Musca domestica 1392 synergists for, Pimpinella anisum extracts | symptoms resembling 242 Parks, Aedes albopictus in, in West | ritici) Pediculosis, in Ethiopia, book 62 |
| as 2668 | Malaysia 1085 | Pediculus, intracellular symbionts in 2301 |
| Paraphlebotomus , in steppes, effects of gerbil eradication on 2139 | Parthenin against | Pediculus capitis biology of 59, 62, 1274 |
| Parapolybia, in Nepal 1174 | Aedes aegypti 1805 | control of 59, 1274, 1535, 2066 |
| Parasa consocia (see Latoia consocia) Parasa sinica (see Latoia sinica) | Periplaneta americana 1805 antifeedant for | insecticides for 63, 296, 459, 465, 1007, 1008, 1273, 1533 |
| Parasarcophaga, in Thailand 3143 | Aedes aegypti 1805 | poisoning of man by 756 |
| Parasarcophaga argyrostoma (see Sarcophaga argyrostoma) | Periplaneta americana 1805 in Parthenium hysterophorus 1805 | descriptions of 1533 eggs of 759 |
| Parasarcophaga crassipalpis (see also | Parthenium hysterophorus | epidemiology of 1274, 1535 |
| Sarcophaga crassipalpis) larval development in 579 | anticholinesterase activity of extracts of 3247 | in East Germany 2066 in Ethiopia 62 |
| Parasarcophaga misera (see also Sarcophaga misera) | antifeedant activity of extracts of 1805 insecticidal activity of extracts of 1805 | in France 1533 in Ghana 756 |
| chromosomes in, polymorphism of 393 | parthenogeneticus, Paratanytarsus | in India 419 |
| triploidy in 623 Parasarcophaga ruficornis (see also | parumapertus, Dermacentor Parus caeruleus, Ixodes arboricola on, in | in Italy 969 in Netherlands 1007, 1273 |
| Sarcophaga ruficornis) | West Germany 1753 | in Seychelles 3019 |
| chromosomes in, polymorphism of 393 development in, metabolic rate per unit | Parus major, Ixodes arboricola on, in West Germany 1753 | in UK 59 in USA 1274, 1535 |
| weight during 585 | Parvoviridae, in, Periplaneta fuliginosa, | in West Germany 459 |
| ovarioles in, effects of thiourea on RNA synthesis in 878 | pathogenicity of 3008 Passer domesticus, Philopterus spp. on | on man |
| Parasite-host interactions, depression of host | 1842 | affecting eyes 1241 |
| populations 2984 Parasites, host susceptibility to, review | Passeromyia heterochaeta, chromosomes in 1156 | eczema caused by 419 effects of 59, 1533 |
| 1817 | Pasteurella, in, rabbit, in laboratory colonies | in California 1274 |
| Parasitism, book 475 parasitivorax, Cheyletiella | 2467 Pasteurella multocida, in, game 2261 | in East Germany 2066 in Ethiopia 62 |
| Parasteatonyssus hoogstraali in Spain 1493 | Pasteurella tularensis (see also Tularemia) in | in Iowa 1535 in Italy 969 |
| on Tadarida teniotis, in Spain 1493 | Chrysops spp., transmission of 1150 | in Netherlands 1007 |
| Paratanytarsus in rice-fields, distribution pattern of 1137 | Dermacentor andersoni, transmission of, effects of host resistance on 2224 | in Seychelles 3019 in West Germany 459 |
| on rice, in California 2804 | D. variabilis, not transmitted to | rearing of, techniques for 63, 1273 |
| preyed on by, Hydrophilidae, in California 2804 | hypersensitive host 1433 game 2261 | spread of 1533 Pediculus corporis (see P. humanus) |
| Paratanytarsus parthenogeneticus, control | Haemogamasus nidi, in Czechoslovakia | Pediculus humanus |
| of, insecticides for, testing of 2870 Parathion (O,O-diethyl O-(4-nitrophenyl) | 1792 Ixodidae, in Ukraine 2219 | biology of 59, 62, 1274 control of 59, 1274 |
| phosphorothioate) | Laelaps hilaris, in Czechoslovakia | insecticides for 63, 296, 1533, 3245 |
| against Haematobia irritans 1937 | 1792 man | repellents for 2262 DDT resistance in 63 |
| Lipeurus caponis, on fowl 2333 | causing symptoms of lymphadenitis 2905 | descriptions of 1533 |
| Menacanthus stramineus, on fowl 2333 | in Great Basin 1150 | eggs of, morphology of 3020 epidemiology of 1274 |
| Musca domestica 212, 2668 in Hydrophilus triangularis, toxicity of | in New York 2621 Pasture management, role in controlling fly | in Ethiopia 62 in France 1533 |
| 1854 | strike on sheep of 896 | in Japan 708 |
| in man, poisoning by 1809 in Musca domestica | Pasture soils Dipterous larvae in, key 1689 | in UK 59 in USA 1274 |
| absorption of 628 | disappearance of cattle dung as affected | legs in, sense organs on 1009 |
| effects of cuticular lipids on absorption of 583 | by 1696 Hydrotaea irritans in | mate-finding in 475 on man |
| in poultry, poisoning by 3252 | in England 1414 | affecting eyes 1241 |
| in <i>Tropisternus lateralis</i> , toxicity of 1854 resistance to, in | in Scotland 1414 Pastures | effects of 59, 1533 in California 1274 |
| Anopheles albimanus | acaricides in, persistence of 660 | in Ethiopia 62 |
| and cross-resistance 153 selection for 153 | Aphodius rufipes in, removal of cattle dung by 913 | in Japan 708 rearing of, techniques for 63 |
| Culex tarsalis, in California 1858 Culicidae, in Utah 1300 | Atta vollenweideri in, damage caused by 2202 | spread of 1533 symbionts in 475 |
| Musca domestica 1392 | Culicidae in, in California 95 | Pediculus humanus capitis (see P. capitis) |
| in West Germany 3160, 3167 synergists for, <i>Pimpinella anisum</i> extracts | fly control in 2853 Phlebotominae in, in Yugoslavia 444 | Pediculus humanus corporis (see P. humanus) |
| as 2668 | tick control in 660 | Pedix (see Butonate) |

searching behaviour in 740

compounds related to 2064

sex pheromone of 1522

responses to 483

```
pellucidula, Hydropsyche
peltifer, Platynothrus
pembaensis. Aedes
 nenai, Culex
 Penfenate (see Benzenemethanol, 3,4-
      dichloro-α-(trichloromethyl)-, acetate)
 Penfluron (see Benzamide, 2,6-difluoro-N-
      [[[4-(trifluoromethyl)phenyl]amino]carb-
      onvil-)
Penicillidia monoceros, in Japan 2531
penicilliger, Amalaraeus (Ceratophyllus)
penicilliger, Ceratophyllus (see Amalaraeus
     penicilliger)
Pennisetum clippings, diet component for,
Stomoxys calcitrans 215
 Pennisetum purpureum (shredded leaves),
      diet component for, Stomoxys nigra
 penobscotensis, Simulium
 1.7.13-Pentacosatriene
    ipids 594 (7E,13E)-, laboratory synthesis of 59
                                                           504
    (7E,13Z)-, laboratory synthesis of
(7E,13Z)-, laboratory synthesis of 594 (7Z,13Z)-, laboratory synthesis of 594 (7Z,13Z)-, laboratory synthesis of 594 Pentadecanamine, N,N-dimethyl-, against, Psoroptes cuniculi, on rabbit 1218 Pentadecanamine, N-ethyl-, against, Psoroptes cuniculi, on rabbit 1218 Pentalagus furnessi, Pulex irritans on, in Ryukyu Islands 718 1,4-Pentanediamine, N*-(7-chloro-4-quinolinyl)-N',N'-diethyl- (see Chloroquine)
      Chloroquine)
 Pentastomida
    in Malagasy Republic 2692
phylogeny of 2028
Pepsia A, in rat gut, Tityus serrulatus venom increasing secretion of 290

Pepstatin, in Rhodnius prolixus, inhibiting moulting and oviposition 325
 Peptides
    in Apis mellifera venom
properties of 1739
        review 633
    in Drosophila, role in reproduction of 40
    in Leiurus quinquestriatus venom 949
Peranus bimaculatus
in Egypt 2156
in dung, in Egypt
Peranus maindronii
in Pakistan 210
                                  2156
    preying on
        Haematobia irritans, and biological
        control using, in California 2

Musca autumnalis, and biological
             control using, in California 210
percavatus, Ixodes
peregrina, Boettcherisca (Sarcophaga)
peregrina, Sarcophaga (see Boettcherisca
       peregrina)
perfiliewi, Phlebotomus
perfuscus, Culex
periblepharus, Steatonyssus
 perilis, Echidnophaga
 Periplaneta, on man, hypersensitivity to
       1516
 Periplaneta americana
    abdominal tergal glands in 1839 activity in, monitoring of 6
    Acugutturus parasiticus in, in St. Lucia 3003
    aflatoxins in, effects of 1519
agonistic behaviour in 999
allethrin in, effects of temperature on
susceptibility to 476
anemotactic orientation in 740
    antennae in, chemoreceptors on 1269
    bacteria in, in East Germany 1832
    behaviour in, effects of X-irradiation on
    cage for studying 2260
    chemoreceptor proteins in 476 control of 34
    antifeedants for 1805
biological 2058
insecticides for 430, 431, 432, 751,
1066, 1461, 1463, 1698, 1805, 3012
DDT analogues in
        ATPase inhibition by 2325 neurotoxicity of 2324
```

```
Periplaneta americana contd.
   dimethoate in
       effects on cholesterol of 320
   effects on nucleic acids of 320 enzymes in 319, 321, 1271, 1502, 1518,
         319, 321, 1271, 1502, 1518
1835, 2325, 2329, 2698, 3002, 3011,
3239, 3247
   epidermis in, scutona in 49
   flight activity in 3010
       glycogen utilisation during 1837
   flight muscles in, mitochondria in fungi in, in East Germany 1832
   glycerides in, absorption from diet of
         317
   glycogen in
effects of X-irradiation on 477
seasonal changes in 2322
growth regulators in, degradation of
         1502
    Hammerschmidtiella diesingi in, in Uttar
         Pradesh 2050
    heartbeat in, regulation of 2844
   hemolymph in
       amino acids in 619
       cholesteryl esters in 314
   hempa in, effects on corpora cardiaca of
   Heterometrus fulvipes venom in, ATPase inhibition by 3239 hind-gut in, uptake of bacterial metabolites from 2057 human pathogens in, transmission of 482
   hypopharynx in, sensilla in 322 immunity in 2306 in Bermuda 1698
   in Bermuda 1698
in Cook Islands 2058
in East Germany 1832
in India 1268, 2322
in Italy 479
in Japan 707
in St. Lucia 3003
   in dwellings
       in Bermuda
                            1698
   in Ryukyu Islands 707
in foodstuffs, in Italy 479
                                        479
   in grocery shops, in East Germany
   insecticides in
       effects on melanisation of 2062
       selectivity of 1461
   juvenile hormones in 1 identifying of 2 metabolism of 1835
    Loxosceles reclusa venom in, effects of
   mating in, role of pheromones in 1518 mechanoreceptors in 1838
   menadione in, for monitoring olfactory reactions 2326
    Moniliformis dubius in, defence
         mechanisms against, overcoming of 475, 1266
   mortality in, effects of X-irradiation on 744
   moulting hormones in, effects on nervous system of 2054
   system in 1521
mervous system in 1521
nervous system in 1521
1515, 1834, 1840, 2053, 2055, 2320,
2846, 3000, 3009, 3011
biogenic amines in 752
       effects of moulting hormones on 2054
       regeneration of
   neurophysiological techniques with 2258 neurosecretory system in 321, 747 nucleic acids in, synthesis of 1271 octopamine in, effects on cyclic AMP of 2699
   olfactory neurons in 2846
on man, hypersensitivity to 2327
    orientation in 483
      arasites of, in India 1268
   parasites of, in India 1268
Parthenium hysterophorus extracts in, effects of 3247
pheromones in, review 34
predators of, avoidance of 483
   pyrethroids in
metabolism of 487, 1466
       penetration of 487
       penetration of cuticle by 751
       sites of action of
    receptors in 3013
    salivary glands in, surgical removal of 1517
```

```
sexual behaviour in 745
   taxonomy of
       characters for 1827
       oothecal characters for 1836
    Thelastoma aligarhica in, in Uttar
         Pradesh 2050
   toxaphene in
effects of 3002
       effects on ion movements in nervous
system of 3000
   effects on ventral nerve cord of vertical distribution of 483 wind responses in 1523, 1524
Periplaneta australasiae
   in India 1268
in Japan 707
   in dwellings, in Ryukyu Islands 707 parasites of, in India 1268
    taxonomy of
       characters for 1827
oothecal characters for 1836
Periplaneta brunnea
in India 1268
   in Japan
                    707
   in Netherlands
   in buildings, in Netherlands 315
in dwellings, in Ryukyu Islands 707
parasites of, in India 1268
    taxonomy of
      characters for 1827
oothecal characters for 1836
Periplaneta fuliginosa
biology of 50
densonucleosis virus in, pathogenicity of
         3008
   in Japan 50, 707
in dwellings, in Ryukyu Islands 707
space utilisation by 750
    taxonomy of, characters for 1827
Periplaneta japonica, taxonomy of,
characters for 1827

Periplanone A, in Periplaneta americana,
possibly a degradation product of periplanone B 1522

Periplanone B (see Spiro[11-oxabicyclo[8.1.0]undec-6-en-2,2'-oxiran]-3-one, 8-methylene-5-(1-methylethyl)-,
      (1(10)Z, 6E)-)
Perlidae, preying on, Simuliidae, in Brazil
Permethrin ((3-phenoxyphenyl)methyl 3-(2,2-dichloroethenyl)-2,2-
      dimethylcyclopropanecarboxylate)
        Aedes cantans 1642
        A. nigromaculis, in irrigated pastures
       A. sticticus 1642
A. vexans 1642
Amblyomma hebraeum 2554
A. variegatum 2554
Blatta orientalis 2319
       Blattella germanica 1004, 2319
Boophilus microplus, on cattle 1199
       C. pipiens 1642
Culiseto
        Culiseta annulata
       Glossina fuscipes 2
                                     2465
       G. morsitans 1386
G. palpalis 1386, 2465
G. tachinoides 1386, 2465
Haematobia irritans, on cattle 1702,
             2848, 2849, 3168
       2048, 2649, 3108 insects in aircraft 1066 Musca domestica 1126, 2504, 3176 in cattle sheds 2516 in pig sties 2516
        Ornithonyssus sylviarum, on fowl
             2922
       Psoroptes ovis, on sheep 2555
Rhipicephalus appendiculatus 2
Sarcoptes scabiei, on man 1457
                                                         2554
       Simuliidae, on cattle 1929
Simulium spp. 1114
Stomoxys calcitrans, on cattle 2848,
             2849
        Tribolium castaneum
   in cattle ear tags 3168
```

| 2 | | |
|--|---|--|
| Permethrin contd. | Pest management | Pheasant, swamp (see Centropus phasianu |
| in Hydropsyche pellucidula, toxicity of 1114 | biotype discrimination in 2273 ecological basis of, review 2263 | Pheidole anastasii in Canada 2204 |
| in insects, metabolism of 1466 | genetic engineering in 2277 | in hothouses, in Manitoba 2204 |
| in Lucilia sericata, effects on neuromuscular transmission of 1163 | systems analysis in 2311 | Phenol, 4-(2-aminoethyl)-, in Atrax robust |
| in Musca domestica | use of movement data in 1246 use of radar in 1253 | venom 2660 Phenol, 2,4-bis(1,1-dimethylethyl)-6-[(4- |
| effects of 1126 | Pesticide resistance 3246 | methoxyphenyl)methyl]- |
| effects on neuromuscular transmission of 1163 | development of, model 429 | in bacteria, not mutagenic 952 |
| in plants, metabolism of 1466 | management of 2272, 2285, 2666 Pesticides | in mouse, toxicity of 952 sterilant for |
| in Rhyacophila dorsalis, toxicity of 1114 | book 2032 | Cochliomyia hominivorax 1945 |
| in soil, degradation of 1466 | exposure/effect relationships of 307 formulations of | Musca domestica 952 |
| in vertebrates, metabolism of 1466 persistence of 1004 | controlled release 696 | Phenol, 2,6-bis(1,1-dimethylethyl)-4-(1-methyl-1-phenylethyl)- |
| resistance to, in | effects on activity of 695 in game animals, toxicity of 305 | in Aedes cantans, fate of 800 |
| Boophilus microplus 1199 | in invertebrates, pharmacology of, book | in aquatic invertebrates, fate of 800 |
| Musca domestica, in West Germany 2504, 3167 | 1504 | in water, fate of 800 Phenol, 2,4-bis(1,1-dimethylethyl)-6-(1- |
| sunlight stability of 2937 | non-target effects of 302 residues of, activities of FAO/WHO | phenylethyl)-, sterilant for, Cochliomyi |
| synergists for, piperonyl butoxide as 3176 | Codex Alimentarius Commission | hominivorax 1945 Phonol 2.4 big(1.1 dimethyllethyl) 6 |
| with $[1R-[1\alpha(S^*),3\beta]]$ -allethrin, against, | concerning 2665 use of, in South Africa 39 | Phenol, 2,4-bis(1,1-dimethylethyl)-6- (phenylmethyl)-, sterilant for, |
| Musca domestica 2490 | pestilens, Austrosimulium | Cochliomyia hominivorax 1945 |
| (1RS-cis)- in Periplaneta americana | Pet birds arthropod parasites of, detecting of 669 | Phenol, 2-chloro-3-methyl-6-(1-methylethyl |
| metabolism of 487 | pest control on 669 | with HCH, 5-methyl-2-(1- methylethyl)phenol, phenylmethyl |
| penetration of 487 | Petauralges rackae | benzoate, prednisolone, and propano |
| in Spodoptera littoralis metabolism of 487 | gen. et sp. nov., description of 2013 in Australia 2013 | acid |
| penetration of 487 | on Petaurus breviceps, in Australia 2013 | against Demodex spp., on dog 1448 |
| (1RS-trans)- (see Transpermethrin) perniciosus, Phlebotomus | Petaurista Echinonyssus distinctitarsus on | Sarcoptes spp., on dog 1448 |
| peromysci, Euschoengastia | in China 2235 | Phenol, 4-[(7-chloro-4-quinolinyl)amino]-2- [(diethylamino)methyl]- (see |
| peromysci, Leptotrombidium | in Thailand 2235 | Amodiaquine) |
| Peromyscopsylla ostsibirica biotopes of 499 | Petaurista elegans Haemolaelaps bidens on, in West | Phenol, 2,6-dichloro-, mating disrupter for |
| in USSR 499 | Malaysia 2715 | Dermacentor variabilis 2578 |
| on small mammals, in USSR 499 Peromyscus | H. petauristae on, in China 2916 Hirstionyssus trogopteri on, in China | Phenol, 3,5-diethyl-, methylcarbamate (see Fenethacarb) |
| Androlaelaps fahrenholzi on 1447 | 2916 | Phenol, 2,4-dinitro- |
| Babesia microti in, in Massachusetts 3191 | petauristae, Haemolaelaps petauristae, Ixodes | in Aedes aegypti, toxicity of 2736 in Musca domestica |
| Malaraeus telchinus on 1283 | Petaurus breviceps, Petauralges rackae on, | inhibiting secretion by Malpighian |
| Peromyscus gossypinus, Culex opisthopus | in Australia 2013 | tubules 3178 |
| on, in Florida 1308 Peromyscus leucopus | Petinomys setosus, Haemolaelaps rohaniae on, in West Malaysia 2715 | stimulating ATPase activity 1324 Phenol, 2-(1,3-dioxolan-2-yl)-, |
| Babesia microti in, in Massachusetts 250, | Petrochelidon pyrrhonota | methylcarbamate (see Dioxacarb) |
| 2575 Cuterebra fontinella on | Ceratophyllus calderwoodi in nests of, in New Brunswick 1029 | Phenol, 4-(di-2-propenylamino)-3,5- dimethyl-, methylcarbamate (ester) (see |
| effects on reproduction of 1675 | C. scopulorum in nests of, in North | Allyxycarb) |
| in Texas 1389 susceptibility to 375 | Dakota 1028 Hectopsylla psittaci on, in California | Phenol, 2-methoxy-4-methyl- in Musca domestica, toxicity of 2668 |
| Dermacentor variabilis on | 2352 | in Pimpinella anisum 2668 |
| in Massachusetts 250, 2575 in Nova Scotia 928, 2559 | preying on, Cochliomyia hominivorax, in Texas 2857 | Phenol, 2-methoxy-4-(2-propenyl)- (see |
| habitats of 928 | Pets, arthropod parasites of, transfer to man | Eugenol) Phenol, 4-methyl- |
| Ixodes dammini on, in Massachusetts | of 982 | attractant for, Aedes triseriatus 1040 |
| 250, 2003, 2575 Peromyscus maniculatus | peus, Culex pH | in Aedes triseriatus, increasing oviposition 1040 |
| Catallagia calisheri on, in Colorado 1550 | in Anopheles nuneztovari breeding water, | in Musca domestica, toxicity of 2668 |
| Dermacentor variabilis on, in Nova Scotia 928 | diurnal variation in 3069 in Anopheles sinensis breeding water | in Pimpinella anisum 2668 Phenol, 2-(1-methylethoxy)-, |
| habitats of 928 | 1319 | methylcarbamate (see Propoxur) |
| Rhadinopsylla rauschi on, in Saskatchewan 1029 | in Simuliid breeding water 1113 in Simuliid larval mid-gut 848 | Phenol, 5-methyl-2-(1-methylethyl)- with HCH, 2-chloro-3-methyl-6-(1- |
| Tunga monositus on, feeding by 1547 | in Simulium nyasalandicum breeding | methylethyl)phenol, phenylmethyl |
| Peroryctes raffrayanus, Guntheria scrobiculata on, in Papua New Guinea | water 843 in Simulium woodi breeding water 843 | benzoate, prednisolone, and propanoi acid |
| 1786 | PH 60-38 (see Benzamide, 2,6-dichloro-N- | against |
| Peroxidase | [[(4-chlorophenyl)amino]carbonyl]-) | Demodex spp., on dog 1448 |
| in Phormia terraenovae activity pattern of 2497 | Phaenicia, taxonomy of 1143 Phaenicia cuprina (see Lucilia cuprina) | Sarcoptes spp., on dog 1448 Phenol, 2-(1-methylpropyl)- |
| effects of growth regulators on 2497 | Phaenicia eximia (see Lucilia eximia) | methylcarbamate |
| Persea americana (see Avocado) persicus, Argas | Phaenicia sericata (see Lucilia sericata) phaenops, Hybomitra | against Tabanus iyoensis 2486 |
| persulcatus, Ixodes | Phagostimulants, for Culex quinquefasciatus | T. rufidens 2486 |
| <i>perturbans, Coquillettidia</i> Peru | 1554 Phalanger orientalis, Amblyomma cyprium | Phenothrin ((3-phenoxyphenyl)methyl 2,2-dimethyl-3-(2-methyl-1- |
| Culicidae in 350 | on, in Solomon Islands 2207 | propenyl)cyclopropanecarboxylate) |
| viruses in 1351 | Phanaeus endymion, complex of 912 | against, insects in aircraft 1066 |
| mites in, in house dust 273 Siolimyia amazonica in 603 | Phanaeus halffterorum sp. nov., description of 912 | analogues of, insecticidal activity of 14 in insects, metabolism of 1466 |
| yellow fever in 3080 | in Mexico 912 | in plants, metabolism of 1466 |
| peruviana, Calliphora pessoai, Triatoma (see T. lenti) | on fungi, in Mexico 912 Phanaeus igneus, in USA 244 | in soil, degradation of 1466 in vertebrates, metabolism of 1466 |
| Pest control | Phaoniini, chromosomes in 1156 | (1R-cis,trans)- |
| alternatives to insecticides for 462 assessing of 732 | pharaonis, Monomorium pharoensis, Anopheles | against Aedes spp. 1225 |
| attractants for, review 470 | phasiani, Uchida | Blattella germanica 1225 |
| book 2036 in Canada, cost of 2039 | Phasianus colchicus, Uchida phasiani on, in Poland 1528 | Cimex lectularius 1225 Musca domestica 1225 |

526 Phenoxybenzamine (N-(2-chloroethyl)-N-(1methyl-2-phenoxyethyl)benzenemethanain cat, changes in cardiovascular effects of Buthus occitanus venom caused by 3237 Phenthoate (ethyl α-[(dimethoxyphosphinothioyl)thio]benzeneacetate) against, Culex pipiens 2743 in roadside drains, persistence of 2743 **Phentolacin** (see 1H-Indene-1,3(2H)-dione, 2-[(4-methylphenyl)phenylacetyl]-) L-Phenylalanine, in Culex quinquefasciatus, effects of Plasmodium cathemerium on L-Phenylalanine, 4-chloro-, in Periplaneta americana, inhibiting serotonin synthesis 2053 Pheromermis zaamini sp. nov., description of 1406 Tabanus bromius, in Uzbekistan 1406 T. golovi, in Uzbekistan 1406 T. leleani, in Uzbekistan 1406 Pheromones neurotoxicology of, conference 476 role in control of Acari of 2548 Phidippus rimator in USA 1429 preying on, Ornithodoros coriaceus, in California 1429 Philander opossum, Culex portesi on, in French Guiana 3030
Philipomyia, weather as affecting 1959 philippinensis, Anopheles Philippines Aedes poicilia in, filariae in 1312 Anopheles flavirostris in, nematodes in Calliphoridae in, in carrion 2159
Culex edwardsi in 1635
C. quinquefasciatus in, nematodes in Culicidae in 823, 1321 Echinonyssus umbonatus in, on Hylopetes Gressittia spp. in 2888 Topomyia rausai in 3096 Philonthus in cattle dung, in Finland 636 preying on, dung-breeding flies, in California 1724

Philonthus flavolimbatus
in USA 220
in cattle dung, in Texas 220
preying on, Haematobia irritans

Philopterus, size of hosts and 1842 220 Philosamia cynthia (see Samia cynthia) Phlebotominae arboviruses in in French Guiana 2732 in Italy 2967 control of, insecticides for 145 counting of 184 in Afghanistan 2993 in Greece 2448 in Gujarat 2816 in India 2038 in India 2038 in Malagasy Republic 2408, 2692 in Saudi Arabia 2134, 2990 in Tamil Nadu 2815 in Turkmenia 1104 in USKR 9
in West Africa 3116
in Yugoslavia 444
in dwellings, in Congo 2836
in forests, in Congo 2140
in steppes, effects of gerbil eradication on Leishmania spp. in
in Neotropical region 42
transmission of 46, 3111
nocturnal activity of 444 on lizard, feeding by 46 on man, in Italy 969 taxonomy of 3112 traps for 1662 Phlebotomus host preferences in 2142 in Algeria 3114 in Tunisia 2446 in Venezuela 185, 186

Phlebotomus contd. in steppes, effects of gerbil eradication on Leishmania spp. in transmission of 2950 review 1926 Phlebotomus alexandri in Afghanistan 837 in Iraq 3110 Phlebotomus andrejevi in USSR 44, 556 Leishmania tropica in in Turkmenia 556 transmission of 44 Phlebotomus argentipes DDT susceptibility in, in Bihar 183 in India 183, 2815, 2816 parasitised by, Stigmaeus youngi, in Gujarat 2816 Phlebotomus ariasi Leishmania infantum in 47 development of 441

Phlebotomus burneyi (see P. kandelakii Phlebotomus caucasicus in Afghanistan 837 in USSR 44 Leishmania spp. in, in Afghanistan 837 L. tropica in, transmission of 44

Phlebotomus chabaudi, in Algeria 311

Phlebotomus chadlii, in Algeria 3114

Phlebotomus chinensis in Afghanistan 83 in Pakistan 2450 in USSR 2137 Phlebotomus chinensis arabicus, in Yemen phlebotomus, Culicoides Phlebotomus dubosqi distribution of 3116
habitats of 3116
Phlebotomus kandelakii, in Pakistan 2450
Phlebotomus kandelakii burneyi, in Pakistan Phlebotomus keshishiani, in USSR 2137 Phlebotomus langeroni orientalis in Ethiopia 836 in Yemen 1238 Phlebotomus longipalpis (see Lutzomyia longipalpis) Phlebotomus major in Greece 2448 in Italy 835 in Pakistan 2450 Phlebotomus martini in Kenya 2814 Leishmania spp. in, in Kenya Phlebotomus mascittii, in Italy 835 Phlebotomus mongolensis in Afghanistan 837 in USSR 44, 556 Leishmania tropica in in Turkmenia 556 transmission of 44 transmission of 44 Phlebotomus papatasi control of 2813 insecticides for 183, 558, 838 repellents for 558 DDT susceptibility in, in Bihar 183 dispersal of, barriers to 557 feeding behaviour in 2138 assistable in abnormalities in 1360 genitalia in, abnormalities in 1360 gerbil eradication as affecting 2139 in Afghanistan 837 in Algeria 3114 in India 183, 2815, 2816 in Iraq 3110 in Israel 558 in Saudi Arabia 838, 2134 in USSR 44, 556, 557, 2137, 2139, 2813 in dwellings, in USSR 2813 Leishmania spp. in in Afghanistan 837 transmission of 2138 L. donovani in, in Iraq 3110 L. tropica in in Turkmenia 556 transmission of 44, 558 on man feeding by 2138 in Israel 558

Phlebotomus papatasi contd. on Psammomys obesus, in Israel 558 parasitised by, *Stigmaeus youngi*, in Gujarat 2816 Phlebotomus perfiliewi, in Greece 2448 Phlebotomus perniciosus hlebotomus perniciosus
deformities in 1485
in Italy 835, 2967
in Spain 1485
in Tunisia 2446
Leishmania spp. in, infectivity of 2446
on dog, in Tunisia 2446 on man, in Tunisia Phlebotomus sergenti hlebotomus sergenti in Afghanistan 837 in Algeria 3114 in India 2816 in Iraq 3110 in USSR 44, 2137 in Yemen 1238 Leishmania tropica in, transmission of parasitised by, Stigmaeus youngi, in Guiarat 2816 Gujarat Phlebotomus stantoni, in China 1103 Phlebotomus vexator (see Lutzomyia vexator) Pholeoixodes canisuga (see Ixodes canisuga) Pholeoixodes hexagonus (see Ixodes hexagonus) Pholeoixodes rugicollis (see Ixodes rugicollis) Phoridae Entomophthora culicis in, in Israel 400 in dwellings, in USSR 1400 in livestock farms, in Bulgaria 877 in rubbish dumps, in USSR 1400 Phormia regina chemoreception in 1157, 1158 competing with, Lucilia sericata 3142 control of, insecticides for 3245 cytochromes in 2508 Entomophthora bullata in, in New York 1411 enzymes in 1948, 2329, 2508 feeding behaviour in 881 flight muscles in, proline shuttle in 1948 in Canada 217 in USA 207, 1411 in carcasses, in California 207 in prehistoric graves, in New Brunswick intraspecific competition in 3142 Octosporea muscaedomesticae in, infectivity of 612 ovarian development in, hormonal regulation of 216 phototransduction in 1716, 1964 propoxur susceptibility in, relation of cytochromes and 2508 cytochromes and sugar receptors in 881 effects of cations on 2847 Phormia terraenovae cold stress in, glucose catabolism during 2170 1-decanol in leg paralysis caused by 399 toxicity of 399

Entomophthora bullata in, pathogenicity of 1411 enzymes in 2497 feeding behaviour in glyceryl trioleate in, toxicity of 399 in Canada 217 in prehistoric graves, in New Brunswick insect growth regulators in, effects of 2497 mitochondrial respiration in, effects of temperature on 2171 olive oil in, toxicity of 399 proboscis extension in, regulation of 2500 Risella 17 oil in, leg paralysis caused by 399 Risella 33 oil in, leg paralysis caused by 399 Phosalone (S-[(6-chloro-2-oxo-3(2H)-benzoxazolyl)methyl] O,O-diethyl phosphorodithioate)

against

Hyalomma spp. 2605 Rhipicephalus bursa 2605

Subject Index Phosmet (S-[(1,3-dihydro-1,3-dioxo-2Hisoindol-2-yl)methyll O,O-dimethyl phosphorodithioate) against Gasterophilus spp., on horse 3141 Haemaphysalis longicornis, on cattle 3197 Hypoderma spp., on cattle 2838 Psoroptes cuniculi, on rabbit 1218 P. ovis on cattle 1452 on sheep 2555 Rhinoestrus purpureus, on horse 3141 in rat embryotoxic effects of 1808 teratogenic effects of 1808 **Phosphamidon** (2-chloro-3-(diethylamino)-1methyl-3-oxo-1-propenyl dimethyl phosphate) against Lipeurus caponis, on fowl 2333 Menacanthus stramineus, on fowl 2333 in *Boophilus microplus*, effects on oviposition of 2598 **Phosphatase**, in tick salivary glands, localisation of 1983 Phosphatase, acid in Apis mellifera 1420 in Apis mellifera venom 1420 in Calliphora vicina fat-body activity pattern of 2176, 2509 induced by ecdysterone 1712

in Calliphora vicina hemocytes, activity pattern of 1699 in Calliphora vicina larval fat-body, induced by ecdysterone 1721 in Periplaneta americana frontal ganglion

321 in Stomoxys calcitrans pupae 1714 Phosphatase, adenosine tri-

in Musca domestica, insecticide inhibition of, reversed by anti-kelevan antibodies 2885

magnesium-activated in Musca domestica thorax, properties of 1324 in Periplaneta americana inhibition by DDT analogues of 2325 inhibition by scorpion venom of

3239 toxaphene inhibition of 3002 potassium-sodium-activated in Rhodnius prolixus ovaries effects of JH on 65 ouabain inhibition of toxaphene inhibition of 3002

Phosphatase, alkaline in Gastromermis boophthorae hypodermis 1371

in Loxosceles reclusa venom 2662 in Periplaneta americana frontal ganglion

Phosphatase, glucose 6-, in fowl liver, stimulated by DDT 704 Phosphatase, trehalose

in *Periplaneta americana*, properties of 2329

in *Phormia regina*, properties of 2329 trehalose activation of, ordinal distribution of 2329

Phosphatidic acids, in grain mites 2020 Phosphatidylcholines (see Lecithins) Phosphatidylethanolamines

in grain mites 2020 in Musca domestica cuticle, role in insecticide resistance of 583, 1162

in Periplaneta americana flight-muscle mitochondria 318 Phosphatidylglycerols, in Periplaneta americana flight-muscle mitochondria

Phosphatidylinositols

in Calliphora vicina salivary glands, role in salivation of 1139, 1140 in grain mites 2020

Phosphatidylserines, in grain mites 2020 Phosphinothioic amide, P,P-bis(1-aziridinyl)sterilant for

Aedes aegypti 2387 Anopheles atroparvus 2387

Phosphinothioic amide, P,P-bis(1-aziridinyl)-N-cyclohexyl-

in Lucilia cuprina, toxicity of 1733 sterilant for, Lucilia cuprina 1733 Phosphoglucomutase (see Phosphomutase,

glucose) Phospholipase

in Solenopsis invicta venom 1419 in Vespula venoms 1423

Phospholipase A2

in Apis mellifera venom effects on presynaptic membranes of 1173

properties of 403 in *Apis mellifera* whole-body extracts 241

in Hymenoptera venoms 2540

in man

antibodies to 634, 2542 hypersensitivity to 2541

Phospholipase B, in Hymenoptera venoms 2540

Phospholipids

in grain mites 2020

in insects, digestion and absorption of, review 1815

in Mermithidae, and in hosts 2820 in Musca domestica

effects of diet on 381 effects on sterols of 381

in Musca domestica cuticle, role in insecticide resistance of 1162 in Periplaneta americana flight-muscle

mitochondria 318 in zebu plasma, effects of ticks on 1425

Phosphomutase, glucose in Anopheles beklemishevi, genetics of 2104

in Anopheles messeae, genetics of 2104 in Culicidae, heat-sensitivity polymorphism in 2762 isoenzymes, in Hybomitra, use in taxonomy of 223

Phosphonic acid, (2,2,2-trichloro-1-hydroyyethyl), directhyl ester (coe

hydroxyethyl)-, dimethyl ester (see

Trichlorphon)

Phosphoramidic acid, methyl-, 2-chloro-4(1,1-dimethylethyl)phenyl methyl ester (see Crufomate)

Phosphoramidothioic acid, O-(2,4-dichlorophenyl) O-ethyl ester, resistance to, in, Musca domestica 903

Phosphoramidothioic acid, acetyl-, O,Sdimethyl ester (see Acephate)

Phosphoric acid

hosphoric acid
in Atrax robustus venom 2660
2-bromo-1-(2,4-dichlorophenyl)ethenyl
diethyl ester (see Bromfenvinfos)
2-bromo-1-(2,4-dichlorophenyl)ethenyl
dimethyl ester
against, Musca domestica 1471, 2938
in Musca domestica, cholinesterase
inhibition by 2938
7-chlorobicyclo[3.2.0]hepta-2,6-dien-6-yl
dimethyl ester (see Heptenophos)
2-chloro-1-(2,4-dichlorophenyl)ethenyl

2-chloro-1-(2,4-dichlorophenyl)ethenyl diethyl ester (see Chlorfenvinphos) 2-chloro-3-(diethylamino)-1-methyl-3-oxo-

2-chloro-3-(diethylamino)-1-methyl-3-oxo 1-propenyl dimethyl ester (see Phosphamidon) 2-chloro-1-(2,4,5-trichlorophenyl)ethenyl dimethyl ester, (Z)- (see Tetrachlorvinphos) 1,2-dibromo-2,2-dichloroethyl dimethyl ester (see Naled) 2,2-dichloroethenyl dimethyl ester (see Dichlorvos)

Dichlorvos)

diethyl 4-nitrophenyl ester (see Paraoxon) dimethyl 3-methyl-4-(methylthio)phenyl ester, in cattle, fenthion metabolite 433

dimethyl 4-nitrophenyl ester, resistance to, in, Musca domestica 1392

3-(dimethylamino)-1-methyl-3-oxo-1propenyl dimethyl ester, (E)- (see Dicrotophos)

Phosphoric triamide, hexamethyl- (see Hempa)

Phosphorodithioic acid
S-[(6-chloro-2-oxo-3(2H)-benzoxazolyl)methyl] O,O-diethyl ester (see Phosalone)

Phosphorodithioic acid contd.

S-[[(4-chlorophenyl)thio]methyl] O,O-

3(4H)-yl)methyl] ester (see Azinphos-

S-[(1,3-dihydro-1,3-dioxo-2H-isoindol-2yl)methyl] O,O-dimethyl ester (see Phosmet)

O,O-dimethyl S-[2-(methylamino)-2-oxoethyl] ester (see Dimethoate) S,S'-1,4-dioxane-2,3-diyl O,O,O',O'-

tetraethyl ester (see Dioxathion) S-[(5-methoxy-2-oxo-1,3,4-thiadiazol-3(2H)-yl)methyl] O,O-dimethyl ester

(see Methidathion)

Phosphorothioic acid O-(4-bromo-2-chlorophenyl) O,O-diethyl

O-(4-bromo-2-chlorophenyl) O,O-diethyl ester, insecticidal activity of 1462 O-(4-bromo-2-chlorophenyl) O-ethyl S-propyl ester (see Profenofos) O-(4-bromo-2,5-dichlorophenyl) O,O-diethyl ester (see Bromophos-ethyl) O-(4-bromo-2,5-dichlorophenyl) O,O-dimethyl ester (see Bromophos) O-(3-chloro-4-methyl-2-oxo-2H-1-benzopyran-7-yl) O,O-diethyl ester (see Coumaphos) S-[(6-chloro-2-oxooxazolo[4,5-b]pyridin-3(2H)-yl)methyl] O,O-dimethyl ester (see Azamethiphos)

(see Azamethiphos)

O-(2,5-dichloro-4-iodophenyl) O,O-dimethyl ester (see Iodofenphos)
O-(2,4-dichlorophenyl) O,O-diethyl ester (see Dichlofenthion)

O-(2,4-dichlorophenyl) O-ethyl S-propyl ester

against

Argas persicus 2675 Cimex lectularius 2675

Dermanyssus gallinae 2675
O,O-diethyl O-[6-methyl-2-(1-methylethyl)-4-pyrimidinyl] ester (see Diazinon)

O,O-diethyl O-[3-methyl-4-(methylthio)phenyl] ester, against, Lucilia cuprina, on sheep 3165 O,O-diethyl O-(4-nitrophenyl) ester (see

Parathion) O,O-diethyl O-(5-phenyl-3-isoxazolyl)

chemical properties of 298 in vertebrates, toxicity of

in vertebrates, toxicity of 298 insecticidal activity of 298 residues of 298

O.O-diethyl O-(3,5,6-trichloro-2-pyridinyl) ester (see Chlorpyrifos)

O-[2-(diethylamino)-6-methyl-4-pyrimidinyl] O.O-dimethyl ester (see Pirimiphos-methyl)

O-(1,6-dihydro-5-methoxy 1-methyl)

O-(1,6-dihydro-5-methoxy-1-methyl-6-oxo-4-pyridazinyl) O-ethyl O-(1-methylethyl) ester acaricidal activity of 297

actricidal activity of 297
anti-cholinesterase activity of 297
in rat, toxicity of 297
insecticidal activity of 297
O,O-dimethyl O-[3-methyl-4(methylsulfinyl)phenyl] ester, in cattle, fenthion metabolite 433
Oddimethyl O-[3-methyl-4-

(methylsulfonyl)phenyl] ester, in cattle, fenthion metabolite 433

O,O-dimethyl O-[3-methyl-4-

(methylthio)phenyl] ester (see

Fenthion) O,O-dimethyl O-(3-methyl-4-nitrophenyl)

cster (see Fenchlorphos)
O,O-dimethyl O-(3-methyl-4-nitrophenyl)
ester (see Fenitrothion)
O,O-dimethyl O-(4-nitrophenyl) ester (see
Parathion-methyl)
O,O-dimethyl O-(2,4,5-trichlorophenyl)
ester (see Fenchlorphos)
O,O-dimethyl O-(3,5,6-trichloro-2paridinyl) ester (see Chlorpwrifes

pyridinyl) ester (see Chlorpyrifosmethyl)

O-[4-[(dimethylamino)sulfonyl]phenyl]
O,O-dimethyl ester (see Famphur)
O-ethyl O-methyl O-(2,4,5trichlorophenyl) ester, against,
Diptera, in pig dung 376

in

| Phosphorothioic acid contd. | Pig contd. | Pipilo erythrophthalmus, western equine |
|--|--|--|
| <i>O,O'</i> -(thiodi-4,1-phenylene) <i>O,O,O',O'</i> - | Sarcoptes scabiei on contd. | encephalitis, virus in, in Connecticut |
| tetramethyl ester (see Temephos) | in Washington 2248 | 1896 |
| Phosphorotrithioic acid | in West Germany 2926 | pipistrelli, Cimex |
| S,S,S-tributyl ester | Siphonaptera on, in Northern Ireland | pipistrellius, Pteracarus |
| in Lucilia cuprina, esterase inhibition by | 768 | Pipistrellus abramus, Acanthophthirius |
| 1151 | Pig carcasses, Chrysomya spp. in, in | luzonensis on, in Japan 2644 |
| | Queensland 588 | Pipistrellus kuhlii, Cimex spp. on, in Iraq |
| synergist for | | 2711 |
| diazinon 609, 1151 | Pig confinement housing | |
| diflubenzuron 903 | Diptera in, in Texas 1704 | Pipistrellus savii, Pteracarus breviatus on, in |
| temephos 2374 | fly control in 1704 | Switzerland 1450 |
| Phosphorus, radioactive (32P) | Pig dung, fly control in, insecticides for | Pirimiphos-methyl (O-[2-(diethylamino)-6- |
| Glossina morsitans labelled with 574 | 376 | methyl-4-pyrimidinyl] O,O-dimethyl |
| Stomoxys calcitrans labelled with 1705 | Pig farms | phosphorothioate) |
| Phosphorylase, in Heterometrus fulvipes | fly control in, insecticides for 376 | against |
| heart, sex differences in 950 | Lutzomyia longipalpis in, in Venezuela | Aedes cantans 803 |
| Phosphorylcholine (see Ethanaminium, | 186 | Anopheles aconitus 530, 1892, 1923 |
| N,N,N-trimethyl-2-(phosphonooxy)-) | Musca domestica in, in East Germany | in Cyclops, toxicity of 803 |
| Phoxim (4-ethoxy-7-phenyl-3,5-dioxa-6-aza- | 3154 | in Daphnia, toxicity of 803 |
| 4-phosphaoct-6-ene-8-nitrile 4-sulfide) | Phlebotomus spp. in, in Uzbekistan 2137 | in Ostracoda, toxicity of 803 |
| against Properties enn | synanthropic Diptera in, in Bulgaria 877 | in Trichoptera, toxicity of 803 |
| Psoroptes spp. on cattle 2239 | Pig housing, pest control in 2538 | Pitymys duodecimcostatus |
| on sheep 2239 | Pig sties, Musca domestica in, in Sicily | Listrophorus occitanus on, in Spain 274 |
| Phthalophos (see Phosmet) | 2516 | Myocoptidae on, in Spain 1478 |
| Phthalthrin (see Tetramethrin) | Pig-waste lagoons | Pitymys irene |
| Phthiraptera | Culex spp. in, in Georgia (USA) 1070 | Amphipsylla quadratoides on, in Yunnan |
| control of 38 | mosquito control in 1070 | Province 1545 |
| economics of 488 | Pigeon (Columba livia) | A. tuta on, in Yunnan Province 1545 |
| in Malagasy Republic 2692 | Argas persicus on | Pitymys leucurus, Paradoxopsyllus spp. on, |
| in Nova Scotia 1816 | development of 1442 | in China 2342 |
| in Saudi Arabia 2990 | in Iraq 3211 | pityocampa, Thaumetopoea |
| on Apodemus agrarius, in Soviet Far East | A. polonicus on, in Poland 1181 | Plaeidae, preying on, Culicidae 1561 |
| 1744 | Culicidae on, in South Africa 1575 | Plagiolepis pygmaea |
| on cattle, resistance to 488 | Dermanyssus gallinae on | in Netherlands 315 |
| on Cynomys, in USA 501 | in Iraq 3211 | in buildings, in Netherlands 315 |
| on domestic animals, in Fiji 1262 | in Quebec 2245 | Plague (see also Yersinia pestis) |
| on man, book 2279 | Mallophaga on, in Spain 1480 | control of 331 |
| on mouse-like rodents, in Byelorussia | Ornithocheyletia hallae on, pruritus | vector control for 980 |
| 639 | caused by 2242 | epidemiology of, review 2353 |
| on pet birds, detecting of 669 | Ornithodoros coniceps in nests of 1431 | in New Mexico 331 |
| on sheep 38 | Quaranfil virus in, in Egypt 2903 | Planarian (see Tricladida) |
| on Talpidae, in USA 1814 | Sindbis virus in, in South Africa 1575 | Plant products, insecticides in, effects on |
| phylloides, Demodex | West Nile virus in, in South Africa 1575 | food value of 1472 |
| Phyllonorycter, preyed on by, Holcocephala | Pigeon blood, in Triatomine blood-meals, | Plants, pyrethroids in, metabolism of 1466 |
| fusca, in Virginia 1553 | identifying of 2081 | Plasmodium |
| Phyllopoda, insecticides in, toxicity of 803 | Pigeon nests | control of, vector control for 723 |
| Phylloscopus collybita, Ixodes ricinus on, in | Argas polonicus in, in Poland 2588 | in |
| West Germany 2218 | Ornithodoros coniceps in, in Iran 2903 | Anopheles spp. |
| phyllosoma, Triatoma | pilosellus, Cimex | infectivity of, genetics of 1817 |
| Physocephalus sexalatus, in, Scarabaeidae, | pilosula, Myrmecia | transmission of 2950 |
| in Georgia (USA) 1740 | pilosus, Culex | A. arabiensis |
| Phytobacteriomycin | pilularius, Canthon | in Zambia 1656 |
| against, Culex molestus 2388 | Pimpinella anisum | transmission of 537 |
| antibiotic activity of 2388 | insecticidal activity of extracts of 2668 | A. gambiae |
| Phytosarcophaga, in Thailand 3143 | synergistic activity of extracts of 2668 | in Gambia 2099 |
| Phytoseiidae, in house dust, in Peru 273 | Pine (see Pinus) | refractoriness to 2427 |
| Picrotoxinin | Pine, Scots (see Pinus sylvestris) | man, in Thailand 2799 |
| analogues of, insecticidal activity of 427 | Pintomyia fischeri (see Lutzomyia fischeri) | vectors of 474, 825 |
| in Musca domestica, not toxic 427 | Pinus, Thaumetopoea pityocampa on, in | book 2985 |
| pictipes, Rhodnius | Greece 2895 | dams as affecting 2729 |
| pictus, Dermacentor | Pinus sawdust, diet component for, | in India 2038 |
| Picus viridis, Ixodes ricinus on, in West | Stomoxys calcitrans 215 | insecticide resistance in 2265 |
| Germany 2218 | Pinus sylvestris, Tabanidae associated with, | land use changes as affecting 2695 |
| Piericidin A ₁ , in Culex pipiens cell lines, | in France 1684 | Plasmodium berghei |
| effects on growth and respiration of | pionips, Aedes | in |
| 1043 | Piophila casei | Anopheles atroparvus, refractoriness to |
| Pieris brassicae, control of, insecticides for | in Romania 2529 | 2792 |
| 295, 1227 | on sheep, in Romania 2529 | A. stephensi |
| Pig (Sus scrofa domestica) | Piperidine, 1-(3-cyclohexen-1-ylcarbonyl)- | effects on hemolymph amino acids of |
| Amblyomma cyprium on, in Queensland | repellent for | 1048 |
| 2207 | Culicoides hollensis, on man 2808 | effects on hemolymph carbohydrates |
| arthropod parasites of, in Fiji 1262 | C. mississippiensis, on man 2808 | of 1049 |
| arthropod pests of, in Nigeria 2045, 2046 | Prosimulium mixtum 1365 | isolating of 927, 2369 |
| chlorpyrifos in, residues of 3017 | Simulium venustum 1365 | not affecting hemolymph volume |
| Demodex phylloides on, in Mexico 2241 | Piperonyl butoxide (5-[[2-(2- | 1332 |
| dichloryos in, effects of 376 | butoxyethoxy)ethoxy]methyl]-6-propyl- | Plasmodium cathemerium, in, Culex quinquefasciatus, effects on amino acids |
| Haematopinus suis on effects of 3018 | 1,3-benzodioxole) | of 440 |
| in Japan 708 | synergist for diazinon 3244 | Plasmodium cynomolgi |
| in Poland 2334 | diflubenzuron 903 | in |
| in West Germany 2926 | organophosphates 2938 | Anopheles stephensi, infectivity of 528 |
| HCH in, toxicity of 2631 | permethrin 3176 | Culicidae, infectivity of 13 |
| Loxosceles reclusa venom in, hemolysis | phenyl methylcarbamates 700 | Plasmodium falciparum |
| caused by 685 | picrotoxinin 427 | chloroquine resistance in, in Brazil 1057 |
| mites on, in Haryana 2646 | pyrethrins 1533, 2378 | control of, vector control for 2774 |
| Ornithodoros moubata on, immunity to | pyrethroids 2490 | in |
| 267 | temephos 2374 | Anopheles spp. |
| Sarcoptes spp. on, in Zambia 2462 | tetramethrin 3176 | in Gambia 2098 |
| S. scabiei on | with butyl 4-aminobenzoate, against, | infectivity of 774 |
| in Idaho 2248 | Otodectes cynotis, on ferret 415 | A. albimanus, infectivity of, strain |
| in Montana 2248 | with chloromethiuron, antagonistic 2599 | differences in 1596 |
| in North Dakota 2248 | pipiens, Culex | A. atroparvus, infectivity of 443 |

| Plasmodium falciparum contd. | Plexippus paykulli | Polistes carolina |
|---|--|---|
| in contd. | biology of 293 | in USA 2194 |
| Anopheles contd. | distribution of 293 | nest sites of 2194 |
| A. freeborni, infectivity of, strain | in USA 293 | Polistes exclamans |
| differences in 1595 | in dwellings, in Florida 293 | in USA 2194 |
| A. funestus, in Liberia 1046 | prey of 293 | nest sites of 2194 |
| | | |
| | Plotox (see Lindane, with trichlorphon) | Polistes gallicus, in grapes, imported into |
| man | plumbeus, Anopheles | Iceland 2537 |
| in Assam 3100 | plumosa, Schoengastia | Polistes hebraeus (see P. olivaceus) |
| in Brazil 1057 | plumosus, Chironomus | Polistes humilis |
| in Cameroon 1074 | pluvialis, Haematopota | allergens of 1506 |
| in Congo 1848 | Poaceae, Tabanidae on, in Connecticut 387 | in Australia 1506 |
| in Gambia 2098 | podagrica, Brachymeria | on man, hypersensitivity to 1506 |
| in India 1627 | Poecilia reticulata, preying on, Culex | Polistes metricus |
| in Liberia 1046 | pipiens 339 | in USA 2194 |
| in Yemen 332 | Poecilochirus necrophori | nest sites of 2194 |
| relation of pregnancy and 2098 | in USA 276 | Polistes olivaceus, glycogen in, reserves of |
| strains of 443 | in Falco sparverius nests, in New York | 2536 |
| Plasmodium gallinaceum | 276 | Polistinae |
| in . | preying on, Lardoglyphus falconidus, in | in Nepal 1174 |
| Aedes aegypti | New York 276 | social behaviour in 2303 |
| damage to 1067, 2730 | Poecilometopa punctipennis, diapause in | Pollenia rudis |
| effects of Microsporidia on 1910 | 1693 | biology of 1141 |
| Anopheles stephensi, effects of | Poecilometopa spilogaster, diapause in | in UK 1141 |
| Microsporidia on 1910 | 1693 | pollionis, Amphipsylla sibirica |
| ookinetes in 2730 | Poekilocerus, Parthenium hysterophorus | polonicus, Acanthophthirius |
| Plasmodium hermani | extracts in, effects of 3247 | polonicus, Argas |
| in | Pogonomyrmex californicus | Polychaeta, culture methods for 1657 |
| Culex nigripalpus, in Florida 12 | in USA 1724 | Polychlorcamphene (see Toxaphene) |
| turkeys, in Florida 12 | preying on, dung-breeding flies, in | Polyethylene (see Ethene, homopolymer) |
| Plasmodium knowlesi | California 1724 | Polyethylene glycol (see Poly(oxy-1,2- |
| in | poicilia, Aedes | ethanediyl), α-hydro-ω-hydroxy-) |
| Anopheles balabacensis, infectivity of | poicilipes, Culex | Polygenis bohlsi jordani |
| 824 | Poland | in Brazil 2085 |
| Culicidae, infectivity of 13 | Acanthophthirius spp. in, on bat 1784 | on Calomys callosus, in Brazil 2085 |
| Macaca mulatta, immunization against | Acari in | on Nectomys squamipes, in Brazil 2085 |
| 824 | on bats 935, 2642 | on Oryzomys eliurus, in Brazil 2085 |
| Plasmodium malariae, in, man, in Yemen | on small mammals 1497, 1498 | on Zygodontomys lasiurus, in Brazil |
| 332 | Aedes spp. in 1914 | 2085 |
| Plasmodium simiovale | A. cinereus in 1915 | Polygenis frustratus |
| in | A. rossicus in 1568 | descriptions of 771 |
| Anopheles atroparvus, infectivity of | Anoplura in, on small mammals 1498 | in Brazil 771 |
| 1337 | Argas polonicus in | on Akodon, in Brazil 771 |
| A. balabacensis, transmission of 1337 | in pigeon nests 2588 | on Oryzomys, in Brazil 771 |
| A. freeborni, infectivity of 1337 | on pigeon 1181 | on Thaptomys, in Brazil 771 |
| A. maculatus, transmission of 1337 | Culicidae in, in forests 832 | on Thomasomys, in Brazil 771 |
| A. quadrimaculatus, infectivity of | Damalinia bovis in, on cattle 758 | taxonomy of |
| 1337 | Gasterophilidae in, on mammals 2473 | characters distinguishing P. pradoi and |
| A. stephensi, infectivity of 1337 | Haematopinus eurysternus in, on cattle | 771 |
| Plasmodium vivax | 758 | variation in 771 |
| in | H. suis in, on pig 2334 | Polygenis pradoi |
| Anopheles albimanus, infectivity of, | Hyalomma marginatum in, on migratory | descriptions of 771 |
| strain differences in 1596 | birds 2900 | taxonomy of, characters distinguishing P. |
| A. balabacensis, transmission of 3079 | Hypoderma bovis in, on cattle 1936 | frustratus and 771 |
| A. freeborni | Hypodermatidae in, on mammals 2473 | complex of 771 |
| infectivity of 3079 | Hystrichopsylla spp. in 2084 | Polygenis tripus |
| strain differences in 1595 | livestock in, pest control on 2281 | descriptions of 497 |
| A. maculatus, transmission of 3079 | Monomorium pharaonis in, in dwellings | in Brazil 497 |
| A. stephensi | 3181 | life-cycle of 497 |
| effects of Microsporidia on 1910 | Myobia musculi in, on mouse 2918 | on rodents, in Brazil 497 |
| transmission of 3079 | Myocoptes musculinus in, on mouse | polynesiensis, Aedes |
| man | 2918 | Polyoxin D |
| in India 1627 | Nycteribiidae in, on bats 2642 | in Calliphora vicina, effects on synthesis |
| in Yemen 332 | Oestridae in, on mammals 2473 | of peritrophic membranes of 2172 |
| Plasmodium yoelii | Rhabdopedilon longicornis in, on Cervus | in Musca domestica, inhibition of chitin |
| in | 1529 | synthesis by 383 |
| Anopheles stephensi, transmission of | Rhipicephalus sanguineus in 2630 | Poly(oxy-1,2-ethanediyl), α-dodecyl-ω- |
| 1592 | in dwellings 3195 | hydroxy-, against, Musca domestica |
| mouse, immunization against 1592 | Sarcoptiformes in, on bats 2641 | 1941 |
| platensis, Triatoma | Simuliidae in 844 | Poly(oxy-1,2-ethanediyl), α -hydro- ω - |
| Platyhelminthes, mosquito control using | Siphonaptera in | hydroxy-, pesticides formulated in |
| 468 | on bats 2642 | microcapsules of 697 |
| Platynothrus peltifer | on small mammals 1284, 1498 | Polyphaga aegyptiaca |
| Anoplocephalidae in, development of | Solenopotes capillatus in, on cattle 758 | in Italy 479 |
| 2011 | synanthropic Diptera in 907 | in foodstuffs, in Italy 479 |
| in India 1797 | Tabanidae in 1722 | Polyplax chinensis |
| Plea striola | Trombidiformes in, on bats 2641 | in USSR 60 |
| in USA 1894 | Uchida phasiani in, on Phasianus 1528 | on Meriones meridianus, in Tadzhikistan |
| overwintering in 1894 | Polietes nigrolimbatus | 60 |
| preyed on by, Notonectidae, in California | descriptions of 3162 | Polyplax opimi |
| 1894 | in Japan 3162 | in USSR 60 |
| preying on, Culex quinquefasciatus 1894 | in cattle dung, in Japan 3162 | on Rhombomys opimus, in Tadzhikistan |
| plebeius, Atylotus | Polistes | 60 |
| plecotius, Acanthophthirius | in Afghanistan 1972 | Polyplax paradoxa |
| Plecotus | in Nansei Islands 712 | in USSR 60 |
| Pteracarus faini on, in Japan 662 | in Nepal 1174 | on Meriones erythrourus, in Tadzhikistan |
| P. submedianus on, in Japan 662 | in Spain 1967 | 60 |
| Plecotus auritus | nests of, distinguishing Vespula germanica | Polyplax reclinata |
| Acanthophthirius plecotius on, in Japan | nests and 2535 | in Japan 708 |
| 2644 | on man | on Rattus legata, in Japan 708 |
| Ischnopsyllus transcaucasicus on, in | hypersensitivity to, diagnosis of 2035 | on Suncus murinus, in Japan 708 |
| Georgia (USSR) 2719 | stings by 712 | Polyplax serrata, on mouse, inflammation |
| pleuralis, Megaselia | venom of, collecting of 1741 | caused by 1534 |

Polyplax spinulosa in Japan 708 on Rattus legata, in Japan 708 on Rattus norvegicus, in Japan 708 on Rattus rattus, in Japan 708 on Tokudaia oshimensis, in Japan 708 Polyradiculitis, in man, caused by wasp sting 242 Polystyrene (see Benzene, ethenyl-, homopolymer) Poly(vinyl chloride) (see Ethene, chloro-, homopolymer) Pomoxis nigromaculatus, diflubenzuron in, residues of 211

Pompilidae, in Nansei Islands 712 Aedes pullatus in 780 Anopheles nuneztovari in, in Venezuela 3069 diflubenzuron in, non-target effects of 211 insect growth regulators in, non-target effects of 2482 larvicidal oils in, non-target effects of 1605 mosquito control in, Bacillus thuringiensis for 3066 predatory insects in, effects of fenvalerate on 98 Sphaerodema urinator in, in Egypt 1039 Ponds, farm, Chaoborus astictopus in, in California 101, 2481 Ponds, fish, Anopheles gambiae in, in Congo Ponds, man-made, Culicidae in, in Finland 1916 Ponds, riparian, Aedes pullatus in Pools, insect growth regulators in, dissipation of 3031 Pools, rock Aedes epactius in, in Utah 1303 A. pullatus in 780 Culex watti in, in Malagasy Republic Pools, snow Aedes excrucians in, in Hokkaido 2740 A. hexodontus in, in Hokkaido 2740 Pools, temporary, Aedes taeniorhynchus in, in North Carolina 1895 Pools, woodland Culicidae in in Texas 142 sampling of 142 Population dynamics book 957 models of, including variability and natural selection role of dispersal and migration in 1244 Porcellio laevis Acuaria spiralis in, infectivity of 2663 in India 2663 in cattle dung, in Kerala 2663 Tetrameres mohtedai in, development of 2663 porcinus, Ornithodoros moubata
Porcupine (see also Erethizon)
Porocephalus crotali, nervous system in Porocephalus moniliformis (see Armillifer moniliformis) portentosa, Gromphadorhina portesi, Culex Portugal Culicidae in 1639, 1640, 2089 Hyalomma marginatum in, viruses in 653 mites in, in house dust 1795 postica, Orgyia posticus, Eublaberus Potamochoerus aethiopicus Glossina brevipalpis on, in Uganda Trypanosoma spp. in, in Uganda 2830 Potamonautes, Simuliidae on, in Ivory Coast 366 Potassium otassium
ion (K¹⁺)
in Periplaneta americana, saxitoxin not
blocking axonal transport of 1514
in Periplaneta americana nervous
system, effects of toxaphene on
movement of 3000
in Pharmic region effects on super-

in *Phormia regina*, effects on sugar receptors of 2847

Potassium contd.
ion (K¹⁺) contd.
in Rhodnius prolixus Malpighian 763 tubules, active transport of Potato (Solanum tuberosum) Potato starch, diet component for, Ophyra aenescens 908 Poultry Argas persicus on, in Pakistan arthropod parasites of, in Fiji 1262 arthropod parasites of, in Fiji 1262

Borrelia anserina in, in Pakistan 3193
diazinon in, poisoning by 3252, 3253

Ixodoidea on, in Karnataka 2017
parathion in, poisoning by 3252 Poultry farms Alphitobius diaperinus in, in Sudan 1742
Argas persicus in, in Pakistan 1996
Phlebotomus spp. in, in Uzbekistan 2137
Poultry feed, Musca domestica larvae as
constituent of 3173 Poultry houses Dermestes lardarius in, in UK D. maculatus in, in UK 638 fly control in 1141 Musca domestica in, in North Carolina 3179 Panstrongylus megistus in, in Brazil 2069, 2070 pest control in 2538 Rhodnius neglectus in, in Brazil Triatoma sordida in, in Brazil 2069, Powassan virus in Aedes dorsalis, not replicating 1578 man, in Canada 2964 in Americas 1065 Power-station effluent, mosquito larvae for testing toxicity of 2736 testing toxicity of pradoi, Polygenis praetiosa, Bryobia Prairie dog, black-tailed (see Cynomys ludovicianus) Prairie dog, white-tailed (see Cynomys leucurus) prasinus, Tropocyclops pratensis, Formica (see F. nigricans) pratti, Cephenemyia Precipitin tests for detecting prey antigens in predator guts 1373 for identifying Triatomine blood-meals 2081, 3023, 3024 Precis almana (see Junonia almana) Predator-prey interactions book 1255 frequency-dependent selection of prey Prednisolone ((11 β)-11,17,21trihydroxypregna-1,4-diene-3,20-dione) with framycetin, fusidic acid, and nystatin against against
Otodectes cynotis
on cat 416
on dog 416
with HCH, 2-chloro-3-methyl-6-(1methylethyl)phenol, 5-methyl-2-(1methylethyl)phenol, phenylmethyl benzoate, and propanoic acid against Demodex spp., on dog 1448 Sarcoptes spp., on dog 1448
Pregna-1,4-diene-3,20-dione, 11,17,21trihydroxy-, (11β)- (see Prednisolone)
Pregna-1,4-diene-3,20-dione, 11,17,21trihydroxy-6-methyl-, (6α,11β)- (see Methylprednisolone)
Pregn-4-ene-3,20-dione, 11,21-dihydroxy- (11β) - (corticosterone) in fowl, increasing resistance to Ornithonyssus sylviarum 941 Cimex lectularius blood-meals, not affecting fecundity 1542
Pregn-4-ene-3,20-dione, 21-hydroxy- (see Desoxycortone)
Prehistoric graves, Diptera in, in New
Brunswick 217
pretoriensics, Anopheles
Prince Edward Island

Culicidae in 1617

Simuliidae in 1111

princei, Nearctopsylla

Prionotheca coronata, preying on, dungbreeding flies 2156 privatus, Glycyphagus Proanastatus excavatus in Argentina 493 male of 493 parasitising, Triatoma infestans, in Argentina 493 Procambarus clarkii, preving on, Romanomermis culicivorax Procavia capensis, Sergentomyia drakensbergi on, in southern Africa 3113 Procladius, control of, insecticides for, testing of 2870 Procladius freemani emergence in 889 in USA 889 in recreational lakes, in California Proctotrupoidea, book 2994 Procvon lotor Aedes spp. on, feeding by 1826 arthropod parasites of, in Indiana 1256 Ctenocephalides felis on, in Maryland 2351 Dermacentor variabilis on, feeding by 1188 Lucilia illustris on, in California 2850 Paralucilia wheeleri on, in California Psorophora ferox on, feeding by 1826 Trichodectes octomaculatus on in Indiana 57, 1527
in Texas 1530

Proechimys, Leishmania spp. in, in French
Guiana 2449 Profenofos (O-(4-bromo-2-chlorophenyl) O-ethyl S-propyl phosphorothioate) insecticidal activity of 1462 Prolate (see Phosmet) L-Proline, in *Phormia regina* flight muscles, metabolism of 1948 prolixus, Rhodnius Propanal, 2-methyl-2-(methylthio)-, O-[(methylamino)carbonyl]oxime (see Aldicarb) Propanamide, N-[2-amino-3-nitro-5-(trifluoromethyl)phenyl]-2,2,3,3tetrafluoroacaricidal activity of 3245 insecticidal activity of 3245 Propanamide, N-(3,4-dichlorophenyl)- (see Propanil) 1-Propanaminium, 2-hydroxy-N,N,Ntrimethyl-, in Musca domestica cuticle effects on insecticide absorption of 583 Propanenitrile, 2-[[4-azido-6-(cyclopropylamino)-1,3,5-triazin-2yl]amino]-, against, Diptera, in fowl dung 2494 1,2,3-Propanetricarboxylic acid, 2-hydroxy-, in Atrax robustus venom 2660 1,2,3-Propanetriol (glycerol) in Atrax robustus venom 2660 in Musca domestica, not accumulating during cold stress 2170 in *Phormia terraenovae*, accumulation during cold stress of 2170 **Propanil** (N-(3,4-dichlorophenyl)propanain Hydrophilus triangularis, toxicity of 1854 in Tropisternus lateralis, toxicity of 1854 Propanoic acid with HCH, 2-chloro-3-methyl-6-(1-methylethyl)phenol, 5-methyl-2-(1-methylethyl)phenol, phenylmethyl benzoate, and prednisolone against Demodex spp., on dog 1448 Sarcoptes spp., on dog Propanoic acid, 2-hydroxy-1448 Glossina morsitans responses to Graphidipes responses to 573
in Atrax robustus venom 2660
Propanoic acid, 2-methyl-, oviposition
repellent for, Culex spp. 97, 2791
2-Propanol, 1-[(1-methylethyl)amino]-3-(1naphthalenyloxy)- (see Propranolol)

2-Propanone

in Glossina austeni, toxicity of 303

| 2-Propanone contd. |
|--|
| in Manduca sexta, terminating pupal |
| diapause 2191 |
| in Musca domestica, toxicity of 303 |
| in Sarcophaga crassipalpis, terminating pupal diapause 2191 |
| in Stomoxys calcitrans, toxicity of 303 |
| 2-Propenamide, 3-(1,3-benzodioxol-5-yl)-N- |
| butyl-, synergist for, pyrethrins 2670 |
| 2-Propenamide, 3-(1,3-benzodioxol-5-yl)-N-hexyl-, synergist for, pyrethrins 2670 |
| 2-Propenamide, 3-(1,3-benzodioxol-5-yl)-N- |
| (phenylmethyl)-, synergist for, pyrethrin |
| 2670 |
| 2-Propenenitrile , polymer with 1,3-butadier |
| and ethenylbenzene, slow-release insecticide formulations in 2336 |
| Propionic acid (see Propanoic acid) |
| Propoxur (2-(1-methylethoxy)phenyl |
| methylcarbamate) |
| against Aedes sollicitans 1615 |
| A. vexans 1615 |
| Anopheles spp. 1322 |
| Blatta orientalis, in water-meter boxes |
| 1509 |
| Blattaria 316 Culex gelidus 2771 |
| Culicidae 1075 |
| Glossina fuscipes 2465 |
| G. palpalis 2465 |
| G. tachinoides 2465 |
| Hyalomma spp. 2605 Pediculus capitis 1008 |
| on man 1273 |
| Rhipicephalus bursa 2605 |
| R. sanguineus, on dog 2595 |
| Rhodnius prolixus 70 in dwellings 74 |
| Triatoma dimidiata, in dwellings 74 |
| formulations of, slow-release 70 |
| in Apis mellifera, metabolite of sulfenyl- |
| propoxur 904 in <i>Blatta orientalis</i> , effects of temperature |
| on susceptibility to 1806 |
| in Diptera, relation of cytochromes and |
| susceptibility to 2508 in fowl, toxicity of 2256 |
| in Musca domestica |
| effects of temperature on susceptibility |
| to 1806 metabolite of sulfenyl-propoxur 904 |
| in Sitophilus granarius, effects of |
| temperature on susceptibility to 180 |
| resistance to, in Anopheles albimanus |
| deliberately linked to Y chromosome |
| 2129 |
| in Nicaragua 2284 mechanisms of 153 |
| Propranolol (1-[(1-methylethyl)amino]-3-(1 |
| naphthalenyloxy)-2-propanol) |
| in cat, changes in cardiovascular effects |
| Buthus occitanus venom caused by 3237 |
| Prosimulium |
| in Maritime Provinces 1111 |
| labro-cibarial sensilla and armature in |
| taxonomy of 3124 |
| Prosimulium exigens |
| in USA 1108 Mesomermis paradisus in, in California |
| 1108 |
| Prosimulium fuscum |
| in USA 188 lipids in, and in Mermithid parasites |
| 2820 |
| relocation behaviour in 188 |
| Prosimulium mixtum |
| breeding places of 1113 colour preferences in 3119 |
| control of |
| growth regulators for 2821 |
| repellents for 1365 in Canada 1113, 2821, 3119 |
| in USA 188, 1365 |
| in streams, distribution pattern of 1113 |
| lipids in, and in Mermithid parasites |

relocation behaviour in 188

Prostaglandin E2 in cattle, not causing detachment of Boophilus microplus 3202 in Hyalomma anatolicum salivary glands and reproductive organs 643 Prostaglandin F, in Hyalomma anatolicum salivary glands and reproductive organs Prostigmata, in Falco sparverius nests, in New York 1991 Protective clothing against hornets 2193 against Phlebotomines 558 Proteinase in Aedes aegypti gut 1609 permeability of peritrophic membrane to 1608 in Aedes aegypti mid-gut, secretion of 1652 in Calliphora vicina hemocytes, activity pattern of 1699 in Cheyletus eruditus gut 2041 in Citellophilus tesquorum gut 498 in Loxosceles reclusa venom 2661 in *Rhodnius prolixus* mid-gut penstatin inhibition of 325 pepstatin inhibition of 325 in Xenopsylla astia gut 1285 in Xenopsylla astia mid-gut 3027 in Xenopsylla cheopis gut 1285 in Xenopsylla cheopis mid-gut 3027 **Proteins** in Aedes, use in taxonomy of 119 in Aedes aegypti, Dipetalonema dessetae inducing synthesis of 2367 in Aedes aegypti male accessory gland secretion 121 in Amblyomma hebraeum hemolymph 253 in Amblyomma hebraeum saliva 253 in Boettcherisca peregrina imaginal disks 2169 in Boophilus microplus, effects of acaricides on 2598 in Calliphora vicina, ecdysterone inhibiting synthesis in fat-body of in Calliphora vicina cuticle, conformation in Calliphora vomitoria cuticle, stability of in Centruroides noxius venom 3238 in Culex pipiens group 1632 in frog, effects of scorpion venom on 948 in Glossina morsitans milk, synthesis of 2149 in Leiurus quinquestriatus venom in Loxosceles reclusa venom, purification of 291 in Lucilia cuprina diet, effects on sexual receptivity of 2189 in Lucilia sericata diet, requirement for in mosquito cell lines, insect growth regulators inhibiting synthesis of 2421 in mouse cell lines, insect growth regulators inhibiting synthesis of in Musca domestica, developmental changes in 880, 1691 in Periplaneta americana flight-muscle mitochondria 318 in Rhipicephalus sanguineus, synthesis of 1980 in Rhipicephalus sanguineus diet, digestion of 1980 in Sarcophaga lineaticolis hemolymph, developmental changes in 1717 in sheep serum, effects of dinobuton on 3251 in Solenopsis invicta venom 1419 in Tyrophagus putrescentiae, incorporation of 1,3-butanediol into 1975 in Vespula venoms 1423 Proteus, in, Argas persicus, in Pakistan 1996 Protophormia terraenovae (see Phormia terraenovae) Protopterus aethiopicus, dieldrin in, metabolism of 373 Protozoa culture methods for 1657

Protozoa contd. in insects, diagnostic manual 2031 man, arthropod transmission of 2279 mosquito control using 468 protracta, Triatoma pruina, Culex pruinosus, Iridomyrmex Prunus amygdalus (see Almond) Prurigo in man caused by arthropod parasites from pet animals 2345 caused by Pyemotes zwoelferi 3210 Pruritus in dog caused by Cheyletiella 1455 caused by Cheyletiella parasitivorax 2657 caused by Cheyletiella yasguri 1780 in man caused by arthropod parasites of pets 982 caused by Dermanyssus gallinae 3211 caused by Dracunculus medinensis 1803 caused by Neotrombicula autumnalis 969 caused by Pyemotes tritici 2635 caused by Siphonaptera 1544 caused by Thaumetopoea pityocampa 2895 caused by Trixacarus caviae 1799 in pig, caused by *Haematopinus suis* 3018 in pigeon, caused by Ornithocheyletia hallae 2242 in Rattus tunneyi, caused by Alabidopus muris 1445 in sheep, caused by Caloglyphus berlesei in Vulpes fulva, caused by Siphonaptera przewalskii, Haematopota Psammomys obesus Leishmania tropica in, in Israel 558 Phlebotomus papatasi on, in Israel 558 Psectrocladius in British Isles 21 taxonomy of 2187 2187 pseudagyrtes, Ctenophthalmus pseudarctomys, Opisodasys pseudodahurica, Rhadinopsylla Pseudois nayaur, Damalinia multispinosa on, in Nepal 2065 Pseudolimnia, preying on, snails 1951 pseudomaculata, Triatoma Pseudomonas Aedes aegypti, suppressing Grampositive bacteria in gut 3098 Argas persicus, in Pakistan 1996 Pseudomonas aeruginosa Culex pipiens grazing on in, Dugesiella anax 2249 Pseudomonas alcaligenes, in, Triatoma infestans excreta 2704 pseudoobscura, Drosophila pseudopunctipennis, Anopheles Pseudoscorpiones, in bat guano, in New Hampshire 1820 pseudoscutellaris, Aedes
Pseudoscisura lophotes, Triatoma platensis
in nests of, in Argentina 493 pseudotenuicollis, Arrenurus pseudovishnui, Culex Psilopelmia, in streams, in Costa Rica 3118 psittaci, Hectopsylla Psocoptera, in bat guano, in New Hampshire 1820 Psorophora, in rock pools, in Utah 1303 Psorophora ciliata biology of 142 in USA 142, 1248, 1620, 3059 in rice-fields, in Louisiana 1620 in woodland pools, in Texas radar observations on 1248 traps for, visual responses to 3059 Psorophora columbiae control of biological 3066

| Psorophora columbiae contd. | Psychoda alternata | Pulex irritans contd. |
|--|---|---|
| control of contd. | in USA 1704 | in Spain 1495 |
| growth regulators for 1570, 1889, | in pig confinement housing, in Texas | in Tanzania 2718 |
| 2744 | 1704 | in Zaïre 2718 |
| insecticides for 2118 | seasonal abundance of 1704 | on dog, in Ryukyu Islands 718 |
| eggs of, longevity of 1094 | Psychodidae, in Malagasy Republic 2408 | on horse, in Spain 1495 on man |
| flight activity in 1331 in USA 1094, 1331, 1620, 2118, 2744, | Psychodopygus, taxonomy of 3112 Pteracarus breviatus | affecting eyes 1241 |
| 3059, 3066 | sp. nov., description of 1450 | in Burundi 2718 |
| in irrigated pastures, in California 3066 | in Switzerland 1450 | in Italy 969 |
| in rice-fields | on Pipistrellus savii, in Switzerland 1450 | in Ryukyu Islands 718 |
| in Louisiana 1620 | Pteracarus faini | on Pentalagus furnessi, in Ryukyu Island |
| in Texas 1094 | sp. nov., description of 662 | 718 |
| overwintering in 1094 | in Japan 662, 663 | on small mammals, in Burundi 2718 |
| traps for 1331 visual responses to 3059 | on Miniopterus, in Japan 663 on Plecotus, in Japan 662 | Pulex simulans in USA 1283 |
| Psorophora confinnis | taxonomy of 663 | on Spermophilus beecheyi, in California |
| heavy rainfall as affecting 94 | Pteracarus macfarlanei | 1283 |
| in USA 94 | in Japan 1791 | pumilio, Carcinops |
| Psorophora discolor | on bat, in Japan 1791 | punctata, Diploptera |
| in USA 1620 in rice-fields, in Louisiana 1620 | Pteracarus miniopteri sp. nov., description of 663 | punctata, Haemaphysalis punctatus, Culicoides |
| Psorophora ferox | in Yugoslavia 663 | puncticollis, Culicoides |
| biology of 142 | on Miniopterus schreibersii, in Yugoslavia | punctipennis, Anopheles |
| feeding behaviour in 1826 | 663 | punctipennis, Poecilometopa |
| in USA 142, 1826 | Pteracarus minutus daubentoni | punctiventris, Hemiscolopendra |
| in woodland pools, in Texas 142 | in Japan 1791 | punctor, Aedes |
| Psorophora howardii | on bat, in Japan 1791 | punctorium, Cheiracanthium |
| biology of 142 in USA 142 | Pteracarus minutus japonicus ssp. nov., description of 1791 | punjabensis, Sergentomyia Punta Salinas virus, in, Ornithodoros |
| in woodland pools, in Texas 142 | in Japan 1791 | amblus, in South America 2974 |
| Psorophora longipalpus | on bat, in Japan 1791 | 1H-Purine-2,6-dione, 3,7-dihydro-1,3- |
| biology of 142 | Pteracarus pipistrellius pipistrellius | dimethyl- (theophylline) |
| in USA 142 | in Japan 1791 | |
| in woodland pools, in Texas 142 | on bat, in Japan 1791 | : A t- t |
| Psoroptes as reservoir of pathogens 974 | Pteracarus pusillus thailandensis ssp. nov., description of 1773 | in Amblyomma americanum effects on salivation of 1978 |
| control of 2044 | in Thailand 1773 | stimulating salivation 1757 |
| acaricides for 934, 2239 | on Scotophilus kuhlii, in Thailand 1773 | in Musca domestica, not affecting |
| on camel, in Mongolia 2044 | Pteracarus submedianus | secretion by Malpighian tubules 317 |
| on cattle, losses caused by 934 | in Japan 662 | 1H-Purine-2,6-dione, 3,7-dihydro-1,3,7- |
| Psoroptes bovis (see P. ovis) | on Plecotus, in Japan 662 | trimethyl- (caffeine) |
| Psoroptes communis (see P. equi) Psoroptes cuniculi | Pteromicra, catalogue of 1942 Pteromicra nigripalpis | |
| control of, acaricides for 668, 1218, 2915 | sp. nov., description of 1942 | in Musca domestica |
| in Fiji 2915 | in Mongolia 1942 | effects on life-span of 2518 |
| in New Zealand 2001 | Pteromys momonga, Tamiopsochirus | effects on ovarian development of |
| in USA 674 | lukoschusi on, in Japan 280 | 2518 |
| on goat | Pteromyscus pulverulentus, Haemolaelaps | effects on pupation of 1416, 2519 |
| in Fiji 2915 in New Zealand 2001 | rohaniae on, in West Malaysia 2715 pteronyssinus, Dermatophagoides | effects on radiation-induced delayed pupariation of 1949 |
| on Odocoileus virginianus, effects of 674 | Pthirus pubis | in Musca domestica diet, effects on |
| on rabbit, ingestion of erythrocytes by | biology of 59, 62, 1274 | pupation of 622 |
| 3229 | control of 59, 1274 | 1H-Purine-2,6,8(3H)-trione, 7,9-dihydro- |
| Psoroptes equi | insecticides for 1533 | (uric acid) |
| control of, acaricides for 270 | descriptions of 1533 | in Andre converti na mitrocomova monto |
| in Egypt 270 in India 2646 | epidemiology of 1274 in Ethiopia 62 | in Aedes aegypti, as nitrogenous waste product 1628 |
| on Asian buffalo, in Egypt 270 | in France 1533 | in Blattella germanica, utilisation of |
| on domestic animals, in Haryana 2646 | in Italy 969 | 2061 |
| Psoroptes ovis | in Japan 708 | in Blattella germanica fat-body, relation of |
| biology of 283, 1771, 2653 | in UK 59 | symbionts and 1001 |
| control of 283, 2653 | in USA 1274 | Puromycin |
| acaricides for 272, 284, 414, 668, 1452, 1770, 2012, 2555 | on man affecting eyes 1241 | in Culex pipiens cell lines, effects on growth and respiration of 1043 |
| descriptions of 1771, 2653 | effects of 59, 1533 | inhibition of protein and nucleic acid |
| history of 283 | in California 1274 | synthesis by 2421 |
| in Argentina 284 | in Ethiopia 62 | purpureus, Rhinoestrus |
| in Denmark 2653 | in Italy 969 | pusilla, Schoenbaueria (see Eusimulium |
| in Lesotho 272 in South Africa 272 | in Japan 708 | pusillum Fusimulium (Schoonhouseig) |
| in UK 283 | spread of 1533 pubis, Pthirus | pusillum, Eusimulium (Schoenbaueria) pusillus, Pteracarus |
| in USA 414, 2555 | Public health | pusillus, Rhipicephalus |
| in West Germany 1770, 2012, 2658 | entomology in, book 2308 | pusio, Fannia |
| on cattle | WHO work on 1505 | pustulata, Mylabris |
| exchange with sheep of 2658 | Puerto Rico | putoria, Chrysomya |
| in Argentina 284 in Texas 414 | arthropod pests in, new records of 313 Cochliomyia minima in, on dog 2889 | putrescentiae, Tyrophagus PVC (see Ethere, chloro, homopolymer) |
| in West Germany 2012 | Culicoides furens in, on man 2440 | PVC (see Ethene, chloro-, homopolymer) Pydrin (see Fenvalerate) |
| losses caused by 1771 | dengue in 1643 | Pyemotes, on man, dermatitis caused by |
| on goat, in Lesotho 272 | mites in, in house dust 2647 | 3210 |
| on sheep 1776 | Tabanidae in 3161 | Pyemotes tritici 3210 |
| effects of 283 | pulchella, Erasmia | in Tunisia 2635 |
| exchange with cattle of 2658 in Argentina 284 | pulchellus, Rhipicephalus nulcher Dermestes | in stored grain, in Tunisia 2635 |
| in Denmark 2653 | pulcher, Dermestes pulcherrimus, Anopheles | on man, in Tunisia 2635 Pyemotes zwoelferi |
| in Lesotho 272 | pulchripalpis, Orthopodomyia | in France 3210 |
| in New Mexico 2555 | pulchritarsis, Aedes | in dried flowers 3210 |
| in West Germany 1770 | pulchrithorax, Culex | on man, prurigo caused by 3210 |
| Psychoda biology of 1141 | Pulex irritans | pygmaea, Plagiolepis |
| biology of 1141 in UK 1141 | in Burundi 2718 in Italy 969 | Pygmephorus on small mammals in North America |
| in tree holes, in Spain 1490 | in Japan 718 | on small mammals, in North America 2643 |
| | | |

| Pygmephorus contd. |
|---|
| taxonomy of 2643 |
| |
| Pygmephorus athiasae (see Siteroptes |
| athiasae) |
| Pygmephorus mesembrinae (see Siteroptes |
| mesembrinae) |
| Pygmephorus spinosus |
| descriptions of 2643 |
| on small mammals, in North America |
| 2643 |
| Pynamin-D-forte (see Chrysanthemic acid, |
| |
| [5-(2-propynyl)-2-furanyl]methyl ester, |
| (1R-cis,trans)-) |
| Pyralidae, preying on, Simuliidae, in Brazil |
| 1373 |
| 1H-Pyrazole, 3,5-bis(4-chlorophenyl)-1-[[(4- |
| chlorophenyl)amino]carbonyl]-4,5- |
| dihydro- |
| against |
| Aedes aegypti 1227 |
| Leptinotarsa decemlineata 1227 |
| Pieris brassicae 1227 |
| 1H-Pyrazole, 4,5-dihydro-3,4-diphenyl-1- |
| [(phenylamino)carbonyl]-, insecticidal |
| activity of derivatives of 295 |
| Pyrellia, in Thailand 1731 |
| |
| Pyrethric acid (3-(3-methoxy-2-methyl-3- |
| oxo-1-propenyl)-2,2- |
| dimethylcyclopropanecarboxylic acid) |
| 1-methylheptyl ester, photoisomerisation |
| of 953 |
| Pyrethrins |
| against |
| Aedes aegypti 2378 |
| A albonictus 2378 |
| A. sollicitans 1615 |
| A. vexans 1615 |
| Blattella germanica 248, 1242 |
| in dwellings 1265 |
| |
| Ctenocephalides felis, in dwellings |
| 1265 |
| Culicidae 1300 |
| Musca domestica 2668, 2669, 2670 |
| Pediculus capitis, on man 465, 1533 |
| in Musca domestica, inhibition of ATPase |
| by 1324 |
| synergists for 2669, 2670 |
| Pimpinella anisum extracts as 2668 |
| |
| piperonyl butoxide as 1533 2378 |
| piperonyl butoxide as 1533, 2378 |
| piperonyl butoxide as 1533, 2378 with carbaryl, against, Walchia americana, |
| piperonyl butoxide as 1533, 2378 with carbaryl, against, Walchia americana, on cat 2024 |
| piperonyl butoxide as 1533, 2378 with carbaryl, against, Walchia americana, on cat 2024 with dichlorvos, and tetramethrin, against, |
| piperonyl butoxide as 1533, 2378 with carbaryl, against, Walchia americana, on cat 2024 with dichlorvos, and tetramethrin, against, Rhipicephalus sanguineus 2595 |
| piperonyl butoxide as 1533, 2378 with carbaryl, against, Walchia americana, on cat 2024 with dichlorvos, and tetramethrin, against, Rhipicephalus sanguineus 2595 Pyrethroids |
| piperonyl butoxide as 1533, 2378 with carbaryl, against, Walchia americana, on cat 2024 with dichlorvos, and tetramethrin, against, Rhipicephalus sanguineus 2595 Pyrethroids development of 701 |
| piperonyl butoxide as 1533, 2378 with carbaryl, against, Walchia americana, on cat 2024 with dichlorvos, and tetramethrin, against, Rhipicephalus sanguineus 2595 Pyrethroids |
| piperonyl butoxide as 1533, 2378 with carbaryl, against, Walchia americana, on cat 2024 with dichlorvos, and tetramethrin, against, Rhipicephalus sanguineus 2595 Pyrethroids development of 701 |
| piperonyl butoxide as 1533, 2378 with carbaryl, against, Walchia americana, on cat 2024 with dichlorvos, and tetramethrin, against, Rhipicephalus sanguineus 2595 Pyrethroids development of 701 resistance to, in, Boophilus microplus 2550 review 1807 |
| piperonyl butoxide as 1533, 2378 with carbaryl, against, Walchia americana, on cat 2024 with dichlorvos, and tetramethrin, against, Rhipicephalus sanguineus 2595 Pyrethroids development of 701 resistance to, in, Boophilus microplus 2550 review 1807 |
| piperonyl butoxide as 1533, 2378 with carbaryl, against, Walchia americana, on cat 2024 with dichlorvos, and tetramethrin, against, Rhipicephalus sanguineus 2595 Pyrethroids development of 701 resistance to, in, Boophilus microplus 2550 review 1807 structure-activity relationships in 1464 |
| piperonyl butoxide as 1533, 2378 with carbaryl, against, Walchia americana, on cat 2024 with dichlorvos, and tetramethrin, against, Rhipicephalus sanguineus 2595 Pyrethroids development of 701 resistance to, in, Boophilus microplus 2550 review 1807 structure-activity relationships in 1464 Pyrethrum (see Pyrethrins) |
| piperonyl butoxide as 1533, 2378 with carbaryl, against, Walchia americana, on cat 2024 with dichlorvos, and tetramethrin, against, Rhipicephalus sanguineus 2595 Pyrethroids development of 701 resistance to, in, Boophilus microplus 2550 review 1807 structure-activity relationships in 1464 Pyrethrum (see Pyrethrins) Pyridine, 3-(1-methyl-2-pyrrolidinyl)-, (S)-, |
| piperonyl butoxide as 1533, 2378 with carbaryl, against, Walchia americana, on cat 2024 with dichlorvos, and tetramethrin, against, Rhipicephalus sanguineus 2595 Pyrethroids development of 701 resistance to, in, Boophilus microplus 2550 review 1807 structure-activity relationships in 1464 Pyrethrum (see Pyrethrins) Pyridine, 3-(1-methyl-2-pyrrolidinyl)-, (S)-, in Periplaneta americana, blocking |
| piperonyl butoxide as 1533, 2378 with carbaryl, against, Walchia americana, on cat 2024 with dichlorvos, and tetramethrin, against, Rhipicephalus sanguineus 2595 Pyrethroids development of 701 resistance to, in, Boophilus microplus 2550 review 1807 structure-activity relationships in 1464 Pyrethrum (see Pyrethrins) Pyridine, 3-(1-methyl-2-pyrrolidinyl)-, (S)-, in Periplaneta americana, blocking trochanteral hairplate afferents 3013 |
| piperonyl butoxide as 1533, 2378 with carbaryl, against, Walchia americana, on cat 2024 with dichlorvos, and tetramethrin, against, Rhipicephalus sanguineus 2595 Pyrethroids development of 701 resistance to, in, Boophilus microplus 2550 review 1807 structure-activity relationships in 1464 Pyrethrum (see Pyrethrins) Pyridine, 3-(1-methyl-2-pyrrolidinyl)-, (S)-, in Periplaneta americana, blocking trochanteral hairplate afferents 3013 4-Pyridinecarboxylic acid, 2-(1- |
| piperonyl butoxide as 1533, 2378 with carbaryl, against, Walchia americana, on cat 2024 with dichlorvos, and tetramethrin, against, Rhipicephalus sanguineus 2595 Pyrethroids development of 701 resistance to, in, Boophilus microplus 2550 review 1807 structure-activity relationships in 1464 Pyrethrum (see Pyrethrins) Pyrdine, 3-(1-methyl-2-pyrrolidinyl)-, (5)-, in Periplaneta americana, blocking trochanteral hairplate afferents 3013 4-Pyridinecarboxylic acid, 2-(1- methylethyl)hydrazide (see Iproniazid) |
| piperonyl butoxide as 1533, 2378 with carbaryl, against, Walchia americana, on cat 2024 with dichlorvos, and tetramethrin, against, Rhipicephalus sanguineus 2595 Pyrethroids development of 701 resistance to, in, Boophilus microplus 2550 review 1807 structure-activity relationships in 1464 Pyrethrum (see Pyrethrins) Pyridine, 3-(1-methyl-2-pyrrolidinyl)-, (S)-, in Periplaneta americana, blocking trochanteral hairplate afferents 3013 4-Pyridinecarboxylic acid, 2-(1- methylethyl)hydrazide (see Iproniazid) 2-Pyridinol, 3,5,6-trichloro- |
| piperonyl butoxide as 1533, 2378 with carbaryl, against, Walchia americana, on cat 2024 with dichlorvos, and tetramethrin, against, Rhipicephalus sanguineus 2595 Pyrethroids development of 701 resistance to, in, Boophilus microplus 2550 review 1807 structure-activity relationships in 1464 Pyrethrum (see Pyrethrins) Pyridine, 3-(1-methyl-2-pyrrolidinyl)-, (S)-, in Periplaneta americana, blocking trochanteral hairplate afferents 3013 4-Pyridinecarboxylic acid, 2-(1- methylethyl)hydrazide (see Iproniazid) 2-Pyridinol, 3,5,6-trichloro- in cattle, chlorpyrifos metabolite 2908 |
| piperonyl butoxide as 1533, 2378 with carbaryl, against, Walchia americana, on cat 2024 with dichlorvos, and tetramethrin, against, Rhipicephalus sanguineus 2595 Pyrethroids development of 701 resistance to, in, Boophilus microplus 2550 review 1807 structure-activity relationships in 1464 Pyrethrum (see Pyrethrins) Pyridine, 3-(1-methyl-2-pyrrolidinyl)-, (S)-, in Periplaneta americana, blocking trochanteral hairplate afferents 3013 4-Pyridinecarboxylic acid, 2-(1- methylethyl)hydrazide (see Iproniazid) 2-Pyridinol, 3,5,6-trichloro- in cattle, chlorpyrifos metabolite 2908 in pig, chlorpyrifos metabolite 3017 |
| piperonyl butoxide as 1533, 2378 with carbaryl, against, Walchia americana, on cat 2024 with dichlorvos, and tetramethrin, against, Rhipicephalus sanguineus 2595 Pyrethroids development of 701 resistance to, in, Boophilus microplus 2550 review 1807 structure-activity relationships in 1464 Pyrethrum (see Pyrethrins) Pyridine, 3-(1-methyl-2-pyrrolidinyl)-, (S)-, in Periplaneta americana, blocking trochanteral hairplate afferents 3013 4-Pyridinecarboxylic acid, 2-(1- methylethyl)hydrazide (see Iproniazid) 2-Pyridinol, 3,5,6-trichloro- |
| piperonyl butoxide as 1533, 2378 with carbaryl, against, Walchia americana, on cat 2024 with dichlorvos, and tetramethrin, against, Rhipicephalus sanguineus 2595 Pyrethroids development of 701 resistance to, in, Boophilus microplus 2550 review 1807 structure-activity relationships in 1464 Pyrethrum (see Pyrethrins) Pyridine, 3-(1-methyl-2-pyrrolidinyl)-, (S)-, in Periplaneta americana, blocking trochanteral hairplate afferents 3013 4-Pyridinecarboxylic acid, 2-(1- methylethyl)hydrazide (see Iproniazid) 2-Pyridinol, 3,5,6-trichloro- in cattle, chlorpyrifos metabolite 2908 in pig, chlorpyrifos metabolite 3017 |
| piperonyl butoxide as 1533, 2378 with carbaryl, against, Walchia americana, on cat 2024 with dichlorvos, and tetramethrin, against, Rhipicephalus sanguineus 2595 Pyrethroids development of 701 resistance to, in, Boophilus microplus 2550 review 1807 structure-activity relationships in 1464 Pyrethrum (see Pyrethrins) Pyridine, 3-(1-methyl-2-pyrrolidinyl)-, (S)-, in Periplaneta americana, blocking trochanteral hairplate afferents 3013 4-Pyridinecarboxylic acid, 2-(1- methylethyl)hydrazide (see Iproniazid) 2-Pyridinol, 3,5,6-trichloro- in cattle, chlorpyrifos metabolite 2908 in pig, chlorpyrifos metabolite 3017 pyriformis, Myrmecia |
| piperonyl butoxide as 1533, 2378 with carbaryl, against, Walchia americana, on cat 2024 with dichlorvos, and tetramethrin, against, Rhipicephalus sanguineus 2595 Pyrethroids development of 701 resistance to, in, Boophilus microplus 2550 review 1807 structure-activity relationships in 1464 Pyrethrum (see Pyrethrins) Pyridine, 3-(1-methyl-2-pyrrolidinyl)-, (S)-, in Periplaneta americana, blocking trochanteral hairplate afferents 3013 4-Pyridinecarboxylic acid, 2-(1- methylethyl)hydrazide (see Iproniazid) 2-Pyridinol, 3,5,6-trichloro- in cattle, chlorpyrifos metabolite 2908 in pig, chlorpyrifos metabolite 3017 pyriformis, Myrmecia Pyroglyphidae |
| piperonyl butoxide as 1533, 2378 with carbaryl, against, Walchia americana, on cat 2024 with dichlorvos, and tetramethrin, against, Rhipicephalus sanguineus 2595 Pyrethroids development of 701 resistance to, in, Boophilus microplus 2550 review 1807 structure-activity relationships in 1464 Pyrethrum (see Pyrethrins) Pyridine, 3-(1-methyl-2-pyrrolidinyl)-, (S)-, in Periplaneta americana, blocking trochanteral hairplate afferents 3013 4-Pyridinecarboxylic acid, 2-(1- methylethyl)hydrazide (see Iproniazid) 2-Pyridinol, 3,5,6-trichloro- in cattle, chlorpyrifos metabolite 2908 in pig, chlorpyrifos metabolite 3017 pyriformis, Myrmecia Pyroglyphidae in house dust in Brazil 1453 |
| piperonyl butoxide as 1533, 2378 with carbaryl, against, Walchia americana, on cat 2024 with dichlorvos, and tetramethrin, against, Rhipicephalus sanguineus 2595 Pyrethroids development of 701 resistance to, in, Boophilus microplus 2550 review 1807 structure-activity relationships in 1464 Pyrethrum (see Pyrethrins) Pyridine, 3-(1-methyl-2-pyrrolidinyl)-, (S)-, in Periplaneta americana, blocking trochanteral hairplate afferents 3013 4-Pyridinecarboxylic acid, 2-(1- methylethyl)hydrazide (see Iproniazid) 2-Pyridinol, 3,5,6-trichloro- in cattle, chlorpyrifos metabolite 2908 in pig, chlorpyrifos metabolite 3017 pyriformis, Myrmecia Pyroglyphidae in house dust in Brazil 1453 in Bulgaria 1779 |
| piperonyl butoxide as 1533, 2378 with carbaryl, against, Walchia americana, on cat 2024 with dichlorvos, and tetramethrin, against, Rhipicephalus sanguineus 2595 Pyrethroids development of 701 resistance to, in, Boophilus microplus 2550 review 1807 structure-activity relationships in 1464 Pyrethrum (see Pyrethrins) Pyridine, 3-(1-methyl-2-pyrrolidinyl)-, (S)-, in Periplaneta americana, blocking trochanteral hairplate afferents 3013 4-Pyridinecarboxylic acid, 2-(1- methylethyl)hydrazide (see Iproniazid) 2-Pyridinol, 3,5,6-trichloro- in cattle, chlorpyrifos metabolite 2908 in pig, chlorpyrifos metabolite 3017 pyriformis, Myrmecia Pyroglyphidae in house dust in Brazil 1453 in Bulgaria 1779 in Colombia 3225 |
| piperonyl butoxide as 1533, 2378 with carbaryl, against, Walchia americana, on cat 2024 with dichlorvos, and tetramethrin, against, Rhipicephalus sanguineus 2595 Pyrethroids development of 701 resistance to, in, Boophilus microplus 2550 review 1807 structure-activity relationships in 1464 Pyrethrum (see Pyrethrins) Pyrddine, 3-(1-methyl-2-pyrrolidinyl)-, (5)-, in Periplaneta americana, blocking trochanteral hairplate afferents 3013 4-Pyridinecarboxylic acid, 2-(1- methylethyl)hydrazide (see Iproniazid) 2-Pyridinol, 3,5,6-trichloro- in cattle, chlorpyrifos metabolite 2908 in pig, chlorpyrifos metabolite 3017 pyriformis, Myrmecia Pyroglyphidae in house dust in Brazil 1453 in Bulgaria 1779 in Colombia 3225 in Denmark 1781 |
| piperonyl butoxide as 1533, 2378 with carbaryl, against, Walchia americana, on cat 2024 with dichlorvos, and tetramethrin, against, Rhipicephalus sanguineus 2595 Pyrethroids development of 701 resistance to, in, Boophilus microplus 2550 review 1807 structure-activity relationships in 1464 Pyrethrum (see Pyrethrins) Pyridine, 3-(1-methyl-2-pyrrolidinyl)-, (S)-, in Periplaneta americana, blocking trochanteral hairplate afferents 3013 4-Pyridinecarboxylic acid, 2-(1- methylethyl)hydrazide (see Iproniazid) 2-Pyridinol, 3,5,6-trichloro- in cattle, chlorpyrifos metabolite 2908 in pig, chlorpyrifos metabolite 3017 pyriformis, Myrmecia Pyroglyphidae in house dust in Brazil 1453 in Bulgaria 1779 in Colombia 3225 in Denmark 1781 in Iran 1205 |
| piperonyl butoxide as 1533, 2378 with carbaryl, against, Walchia americana, on cat 2024 with dichlorvos, and tetramethrin, against, Rhipicephalus sanguineus 2595 Pyrethroids development of 701 resistance to, in, Boophilus microplus 2550 review 1807 structure-activity relationships in 1464 Pyrethrum (see Pyrethrins) Pyridine, 3-(1-methyl-2-pyrrolidinyl)-, (S)-, in Periplaneta americana, blocking trochanteral hairplate afferents 3013 4-Pyridinecarboxylic acid, 2-(1- methylethyl)hydrazide (see Iproniazid) 2-Pyridinol, 3,5,6-trichloro- in cattle, chlorpyrifos metabolite 2908 in pig, chlorpyrifos metabolite 3017 pyriformis, Myrmecia Pyroglyphidae in house dust in Brazil 1453 in Bulgaria 1779 in Colombia 3225 in Denmark 1781 in Iran 1205 in Ohio 1794 |
| piperonyl butoxide as 1533, 2378 with carbaryl, against, Walchia americana, on cat 2024 with dichlorvos, and tetramethrin, against, Rhipicephalus sanguineus 2595 Pyrethroids development of 701 resistance to, in, Boophilus microplus 2550 review 1807 structure-activity relationships in 1464 Pyrethrum (see Pyrethrins) Pyridine, 3-(1-methyl-2-pyrrolidinyl)-, (S)-, in Periplaneta americana, blocking trochanteral hairplate afferents 3013 4-Pyridinecarboxylic acid, 2-(1- methylethyl)hydrazide (see Iproniazid) 2-Pyridinol, 3,5,6-trichloro- in cattle, chlorpyrifos metabolite 2908 in pig, chlorpyrifos metabolite 3017 pyriformis, Myrmecia Pyroglyphidae in house dust in Brazil 1453 in Bulgaria 1779 in Colombia 3225 in Denmark 1781 in Iran 1205 in Ohio 1794 in Sweden 2923 |
| piperonyl butoxide as 1533, 2378 with carbaryl, against, Walchia americana, on cat 2024 with dichlorvos, and tetramethrin, against, Rhipicephalus sanguineus 2595 Pyrethroids development of 701 resistance to, in, Boophilus microplus 2550 review 1807 structure-activity relationships in 1464 Pyrethrum (see Pyrethrins) Pyridine, 3-(1-methyl-2-pyrrolidinyl)-, (S)-, in Periplaneta americana, blocking trochanteral hairplate afferents 3013 4-Pyridinecarboxylic acid, 2-(1- methylethyl)hydrazide (see Iproniazid) 2-Pyridinol, 3,5,6-trichloro- in cattle, chlorpyrifos metabolite 2908 in pig, chlorpyrifos metabolite 3017 pyriformis, Myrmecia Pyroglyphidae in house dust in Brazil 1453 in Bulgaria 1779 in Colombia 3225 in Denmark 1781 in Iran 1205 in Ohio 1794 in Sweden 2923 interactions with fungi of 2565 |
| piperonyl butoxide as 1533, 2378 with carbaryl, against, Walchia americana, on cat 2024 with dichlorvos, and tetramethrin, against, Rhipicephalus sanguineus 2595 Pyrethroids development of 701 resistance to, in, Boophilus microplus 2550 review 1807 structure-activity relationships in 1464 Pyrethrum (see Pyrethrins) Pyridine, 3-(1-methyl-2-pyrrolidinyl)-, (S)-, in Periplaneta americana, blocking trochanteral hairplate afferents 3013 4-Pyridinecarboxylic acid, 2-(1- methylethyl)hydrazide (see Iproniazid) 2-Pyridinol, 3,5,6-trichloro- in cattle, chlorpyrifos metabolite 2908 in pig, chlorpyrifos metabolite 3017 pyriformis, Myrmecia Pyroglyphidae in house dust in Brazil 1453 in Bulgaria 1779 in Colombia 3225 in Denmark 1781 in Iran 1205 in Ohio 1794 in Sweden 2923 interactions with fungi of 2565 interactions with other mites of 2563 |
| piperonyl butoxide as 1533, 2378 with carbaryl, against, Walchia americana, on cat 2024 with dichlorvos, and tetramethrin, against, Rhipicephalus sanguineus 2595 Pyrethroids development of 701 resistance to, in, Boophilus microplus 2550 review 1807 structure-activity relationships in 1464 Pyrethrum (see Pyrethrins) Pyridine, 3-(1-methyl-2-pyrrolidinyl)-, (S)-, in Periplaneta americana, blocking trochanteral hairplate afferents 3013 4-Pyridinecarboxylic acid, 2-(1- methylethyl)hydrazide (see Iproniazid) 2-Pyridinol, 3,5,6-trichloro- in cattle, chlorpyrifos metabolite 2908 in pig, chlorpyrifos metabolite 3017 pyriformis, Myrmecia Pyroglyphidae in house dust in Brazil 1453 in Bulgaria 1779 in Colombia 3225 in Denmark 1781 in Iran 1205 in Ohio 1794 in Sweden 2923 interactions with fungi of 2565 interactions with other mites of 2563 |
| piperonyl butoxide as 1533, 2378 with carbaryl, against, Walchia americana, on cat 2024 with dichlorvos, and tetramethrin, against, Rhipicephalus sanguineus 2595 Pyrethroids development of 701 resistance to, in, Boophilus microplus 2550 review 1807 structure-activity relationships in 1464 Pyrethrum (see Pyrethrins) Pyridine, 3-(1-methyl-2-pyrrolidinyl)-, (S)-, in Periplaneta americana, blocking trochanteral hairplate afferents 3013 4-Pyridinecarboxylic acid, 2-(1- methylethyl)hydrazide (see Iproniazid) 2-Pyridinol, 3,5,6-trichloro- in cattle, chlorpyrifos metabolite 2908 in pig, chlorpyrifos metabolite 3017 pyriformis, Myrmecia Pyroglyphidae in house dust in Brazil 1453 in Bulgaria 1779 in Colombia 3225 in Denmark 1781 in Iran 1205 in Ohio 1794 in Sweden 2923 interactions with fungi of 2565 interactions with other mites of 2563 Pyrrhocoris apterus, control of, growth regulators for 705 |
| piperonyl butoxide as 1533, 2378 with carbaryl, against, Walchia americana, on cat 2024 with dichlorvos, and tetramethrin, against, Rhipicephalus sanguineus 2595 Pyrethroids development of 701 resistance to, in, Boophilus microplus 2550 review 1807 structure-activity relationships in 1464 Pyrethrum (see Pyrethrins) Pyridine, 3-(1-methyl-2-pyrrolidinyl)-, (S)-, in Periplaneta americana, blocking trochanteral hairplate afferents 3013 4-Pyridinecarboxylic acid, 2-(1- methylethyl)hydrazide (see Iproniazid) 2-Pyridinol, 3,5,6-trichloro- in cattle, chlorpyrifos metabolite 2908 in pig, chlorpyrifos metabolite 3017 pyriformis, Myrmecia Pyroglyphidae in house dust in Brazil 1453 in Bulgaria 1779 in Colombia 3225 in Denmark 1781 in Iran 1205 in Ohio 1794 in Sweden 2923 interactions with fungi of 2565 interactions with other mites of 2563 Pyrrhocoris apterus, control of, growth regulators for 705 Q fever (see also Coxiella burneti) |
| piperonyl butoxide as 1533, 2378 with carbaryl, against, Walchia americana, on cat 2024 with dichlorvos, and tetramethrin, against, Rhipicephalus sanguineus 2595 Pyrethroids development of 701 resistance to, in, Boophilus microplus 2550 review 1807 structure-activity relationships in 1464 Pyrethrum (see Pyrethrins) Pyridine, 3-(1-methyl-2-pyrrolidinyl)-, (S)-, in Periplaneta americana, blocking trochanteral hairplate afferents 3013 4-Pyridinecarboxylic acid, 2-(1- methylethyl)hydrazide (see Iproniazid) 2-Pyridinol, 3,5,6-trichloro- in cattle, chlorpyrifos metabolite 2908 in pig, chlorpyrifos metabolite 3017 pyriformis, Myrmecia Pyroglyphidae in house dust in Brazil 1453 in Bulgaria 1779 in Colombia 3225 in Denmark 1781 in Iran 1205 in Ohio 1794 in Sweden 2923 interactions with fungi of 2565 interactions with other mites of 2563 Pyrrhocoris apterus, control of, growth regulators for 705 |
| piperonyl butoxide as 1533, 2378 with carbaryl, against, Walchia americana, on cat 2024 with dichlorvos, and tetramethrin, against, Rhipicephalus sanguineus 2595 Pyrethroids development of 701 resistance to, in, Boophilus microplus 2550 review 1807 structure-activity relationships in 1464 Pyrethrum (see Pyrethrins) Pyridine, 3-(1-methyl-2-pyrrolidinyl)-, (S)-, in Periplaneta americana, blocking trochanteral hairplate afferents 3013 4-Pyridinecarboxylic acid, 2-(1- methylethyl)hydrazide (see Iproniazid) 2-Pyridinol, 3,5,6-trichloro- in cattle, chlorpyrifos metabolite 2908 in pig, chlorpyrifos metabolite 3017 pyriformis, Myrmecia Pyroglyphidae in house dust in Brazil 1453 in Bulgaria 1779 in Colombia 3225 in Denmark 1781 in Iran 1205 in Ohio 1794 in Sweden 2923 interactions with fungi of 2565 interactions with other mites of 2563 Pyrrhocoris apterus, control of, growth regulators for 705 Q fever (see also Coxiella burneti) |
| piperonyl butoxide as 1533, 2378 with carbaryl, against, Walchia americana, on cat 2024 with dichlorvos, and tetramethrin, against, Rhipicephalus sanguineus 2595 Pyrethroids development of 701 resistance to, in, Boophilus microplus 2550 review 1807 structure-activity relationships in 1464 Pyrethrum (see Pyrethrins) Pyrdidine, 3-(1-methyl-2-pyrrolidinyl)-, (S)-, in Periplaneta americana, blocking trochanteral hairplate afferents 3013 4-Pyridinecarboxylic acid, 2-(1- methylethyl)hydrazide (see Iproniazid) 2-Pyridinol, 3,5,6-trichloro- in cattle, chlorpyrifos metabolite 2908 in pig, chlorpyrifos metabolite 3017 pyriformis, Myrmecia Pyroglyphidae in house dust in Brazil 1453 in Bulgaria 1779 in Colombia 3225 in Denmark 1781 in Iran 1205 in Ohio 1794 in Sweden 2923 interactions with other mites of 2563 Pyrrhocoris apterus, control of, growth regulators for 705 Q fever (see also Coxiella burneti) in West Germany 2571 quadraticeps, Suricatoecus |
| piperonyl butoxide as 1533, 2378 with carbaryl, against, Walchia americana, on cat 2024 with dichlorvos, and tetramethrin, against, Rhipicephalus sanguineus 2595 Pyrethroids development of 701 resistance to, in, Boophilus microplus 2550 review 1807 structure-activity relationships in 1464 Pyrethrum (see Pyrethrins) Pyridine, 3-(1-methyl-2-pyrrolidinyl)-, (S)-, in Periplaneta americana, blocking trochanteral hairplate afferents 3013 4-Pyridinecarboxylic acid, 2-(1- methylethyl)hydrazide (see Iproniazid) 2-Pyridinol, 3,5,6-trichloro- in cattle, chlorpyrifos metabolite 2908 in pig, chlorpyrifos metabolite 3017 pyriformis, Myrmecia Pyroglyphidae in house dust in Brazil 1453 in Bulgaria 1779 in Colombia 3225 in Denmark 1781 in Iran 1205 in Ohio 1794 in Sweden 2923 interactions with fungi of 2565 interactions with fungi of 2565 interactions with other mites of 2563 Pyrrhocoris apterus, control of, growth regulators for 705 Q fever (see also Coxiella burneti) in West Germany 2571 quadraticeps, Suricatoecus quadratoides, Amphipsylla |
| piperonyl butoxide as 1533, 2378 with carbaryl, against, Walchia americana, on cat 2024 with dichlorvos, and tetramethrin, against, Rhipicephalus sanguineus 2595 Pyrethroids development of 701 resistance to, in, Boophilus microplus 2550 review 1807 structure-activity relationships in 1464 Pyrethrum (see Pyrethrins) Pyridine, 3-(1-methyl-2-pyrrolidinyl)-, (S)-, in Periplaneta americana, blocking trochanteral hairplate afferents 3013 4-Pyridinecarboxylic acid, 2-(1- methylethyl)hydrazide (see Iproniazid) 2-Pyridinol, 3,5,6-trichloro- in cattle, chlorpyrifos metabolite 2908 in pig, chlorpyrifos metabolite 3017 pyriformis, Myrmecia Pyroglyphidae in house dust in Brazil 1453 in Bulgaria 1779 in Colombia 3225 in Denmark 1781 in Iran 1205 in Ohio 1794 in Sweden 2923 interactions with fungi of 2565 interactions with other mites of 2563 Pyrrhocoris apterus, control of, growth regulators for 705 Q fever (see also Coxiella burneti) in West Germany 2571 quadraticeps, Suricatoecus quadriannulatus, Anopheles muderimaeulatus, Anopheles |
| piperonyl butoxide as 1533, 2378 with carbaryl, against, Walchia americana, on cat 2024 with dichlorvos, and tetramethrin, against, Rhipicephalus sanguineus 2595 Pyrethroids development of 701 resistance to, in, Boophilus microplus 2550 review 1807 structure-activity relationships in 1464 Pyrethrum (see Pyrethrins) Pyridine, 3-(1-methyl-2-pyrrolidinyl)-, (S)-, in Periplaneta americana, blocking trochanteral hairplate afferents 3013 4-Pyridinecarboxylic acid, 2-(1- methylethyl)hydrazide (see Iproniazid) 2-Pyridinol, 3,5,6-trichloro- in cattle, chlorpyrifos metabolite 2908 in pig, chlorpyrifos metabolite 3017 pyriformis, Myrmecia Pyroglyphidae in house dust in Brazil 1453 in Bulgaria 1779 in Colombia 3225 in Denmark 1781 in Iran 1205 in Ohio 1794 in Sweden 2923 interactions with fungi of 2565 interactions with other mites of 2563 Pyrrhocoris apterus, control of, growth regulators for 705 Q fever (see also Coxiella burneti) in West Germany 2571 quadraticeps, Suricatoecus quadriannulatus, Anopheles muderimaeulatus, Anopheles |
| piperonyl butoxide as 1533, 2378 with carbaryl, against, Walchia americana, on cat 2024 with dichlorvos, and tetramethrin, against, Rhipicephalus sanguineus 2595 Pyrethroids development of 701 resistance to, in, Boophilus microplus 2550 review 1807 structure-activity relationships in 1464 Pyrethrum (see Pyrethrins) Pyridine, 3-(1-methyl-2-pyrrolidinyl)-, (S)-, in Periplaneta americana, blocking trochanteral hairplate afferents 3013 4-Pyridinecarboxylic acid, 2-(1- methylethyl)hydrazide (see Iproniazid) 2-Pyridinol, 3,5,6-trichloro- in cattle, chlorpyrifos metabolite 2908 in pig, chlorpyrifos metabolite 3017 pyriformis, Myrmecia Pyroglyphidae in house dust in Brazil 1453 in Bulgaria 1779 in Colombia 3225 in Denmark 1781 in Iran 1205 in Ohio 1794 in Sweden 2923 interactions with fungi of 2565 interactions with fungi of 2565 interactions with other mites of 2563 Pyrrhocoris apterus, control of, growth regulators for 705 Q fever (see also Coxiella burneti) in West Germany 2571 quadraticeps, Suricatoecus quadratoides, Amphipsylla quadrimaculatus, Anopheles quadripertusus, Haematopinus |
| piperonyl butoxide as 1533, 2378 with carbaryl, against, Walchia americana, on cat 2024 with dichlorvos, and tetramethrin, against, Rhipicephalus sanguineus 2595 Pyrethroids development of 701 resistance to, in, Boophilus microplus 2550 review 1807 structure-activity relationships in 1464 Pyrethrum (see Pyrethrins) Pyridine, 3-(1-methyl-2-pyrrolidinyl)-, (S)-, in Periplaneta americana, blocking trochanteral hairplate afferents 3013 4-Pyridinecarboxylic acid, 2-(1- methylethyl)hydrazide (see Iproniazid) 2-Pyridinol, 3,5,6-trichloro- in cattle, chlorpyrifos metabolite 2908 in pig, chlorpyrifos metabolite 3017 pyriformis, Myrmecia Pyroglyphidae in house dust in Brazil 1453 in Bulgaria 1779 in Colombia 3225 in Denmark 1781 in Iran 1205 in Ohio 1794 in Sweden 2923 interactions with fungi of 2565 interactions with other mites of 2563 Pyrrhocoris apterus, control of, growth regulators for 705 Q fever (see also Coxiella burneti) in West Germany 2571 quadraticeps, Suricatoecus quadratoides, Amphipsylla quadrimaculatus, Anopheles quadrimaculatus, Anopheles quadripertusus, Haematopinus quanzensis, Glossina fuscipes |
| piperonyl butoxide as 1533, 2378 with carbaryl, against, Walchia americana, on cat 2024 with dichlorvos, and tetramethrin, against, Rhipicephalus sanguineus 2595 Pyrethroids development of 701 resistance to, in, Boophilus microplus 2550 review 1807 structure-activity relationships in 1464 Pyrethrum (see Pyrethrins) Pyridine, 3-(1-methyl-2-pyrrolidinyl)-, (S)-, in Periplaneta americana, blocking trochanteral hairplate afferents 3013 4-Pyridinecarboxylic acid, 2-(1- methylethyl)hydrazide (see Iproniazid) 2-Pyridinol, 35,6-trichloro- in cattle, chlorpyrifos metabolite 2908 in pig, chlorpyrifos metabolite 3017 pyriformis, Myrmecia Pyroglyphidae in house dust in Brazil 1453 in Bulgaria 1779 in Colombia 3225 in Denmark 1781 in Iran 1205 in Ohio 1794 in Sweden 2923 interactions with fungi of 2565 interactions with other mites of 2563 Pyrrhocoris apterus, control of, growth regulators for 705 Q fever (see also Coxiella burneti) in West Germany 2571 quadraticeps, Suricatoecus quadrinaculatus, Anopheles quadrimaculatus, Anopheles quadrimaculatus, Haematopinus quanzensis, Glossina fuscipes Quaranfil virus |
| piperonyl butoxide as 1533, 2378 with carbaryl, against, Walchia americana, on cat 2024 with dichlorvos, and tetramethrin, against, Rhipicephalus sanguineus 2595 Pyrethroids development of 701 resistance to, in, Boophilus microplus 2550 review 1807 structure-activity relationships in 1464 Pyrethrum (see Pyrethrins) Pyridine, 3-(1-methyl-2-pyrrolidinyl)-, (S)-, in Periplaneta americana, blocking trochanteral hairplate afferents 3013 4-Pyridinecarboxylic acid, 2-(1- methylethyl)hydrazide (see Iproniazid) 2-Pyridinol, 3,5,6-trichloro- in cattle, chlorpyrifos metabolite 2908 in pig, chlorpyrifos metabolite 3017 pyriformis, Myrmecia Pyroglyphidae in house dust in Brazil 1453 in Bulgaria 1779 in Colombia 3225 in Denmark 1781 in Iran 1205 in Ohio 1794 in Sweden 2923 interactions with fungi of 2565 interactions with other mites of 2563 Pyrrhocoris apterus, control of, growth regulators for 705 Q fever (see also Coxiella burneti) in West Germany 2571 quadraticeps, Suricatoecus quadratoides, Amphipsylla quadrimaculatus, Anopheles quadrimaculatus, Anopheles quadripertusus, Haematopinus quanzensis, Glossina fuscipes |

```
Quaranfil virus contd.
   in contd.
      Ornithodoros spp. 2966
Quarantine, of biological control agents
    2313
quasirusticus, Aedes
Quebec
   Aedes spp. in 512
   A. hexodontus in 780
   A. pullatus in 780
   Dermanyssus gallinae in, on man
   Simulium venustum in, on man 2456
Queensland
   Aedes normanensis in, viruses in 3084
   Amblyomma cyprium in, on pig 2207
   Austrosimulium pestilens in 561
   Boophilus microplus in
     on Bos indicus × B. taurus 252, 261
   on cattle 261, 645, 1201, 1752
Calliphoridae in, on sheep 227
   Chrysomya spp. in, in carrion 588
Culex annulirostris in 507, 1903
      viruses in 3084
   C. edwardsi in 1635
   C. quinquefasciatus in, viruses in 3084
   Culicidae in 1291, 3083
   Culicoides brevitarsis in, on cattle 553
   C. molestus in, in canals 3109
   Dermestidae in, in sheepskin 909
Diptera in, in sheepskin 909
Fannia canicularis in 587
   Haemaphysalis doenitzi in, on Centropus
        1200
   H. longicornis in, on cattle
   Ixodes holocyclus in 2618
   Lucilia cuprina in, on sheep 2882
   Scarabaeidae in, in horse dung 911
   Simuliidae in 845
  Simulium nicholsoni in 561
S. ornatipes in 561
   veterinary entomology in 2132
Ouercus
   acaricidal activity of extracts of 246
   Tabanidae on, in Connecticut 387
Quercus agrifolia, Aedes sierrensis in holes in, in California 164
Quercus pubescens, Tabanidae associated
with, in France
querula, Ravinia
                         1684
Quinomethionate (6-methyl-1,3-dithiolo[4,5-
    b]quinoxalin-2-one)
   against
     Menacanthus stramineus, on fowl
          1532
      Menopon gallinae, on fowl 1532
quinquefasciatus, Culex
quinquelineata, Xyalophora
quinquestriatum, Simulium quinquestriatus, Leiurus
quinquevittatus, Eretmapodites
 quirosi, Odontopsyllus
quirosi, Odontopsyllus

R-203 (see Acetamide, N,N-diethyl-2-
phenoxy-)

R-20458 (see Oxirane, 3-[5-(4-
ethylphenoxy)-3-methyl-3-pentenyl]-2,2-
dimethyl-, (E)-)

R-28627 (see 4-Oxa-2-thia-3-phospha-1-
stannahexane, 1,1,1-tricyclohexyl-5-
methyl-3-(1-methylethoxyl-3-sulfide)
     methyl-3-(1-methylethoxy)-, 3-sulfide)
Rabbit (see also named species)
   Amblyomma maculatum on immunity to 20
      immunization against 3205
   Anopheles sinensis on, rearing of 82
   blood-sucking flies on, feeding on ears of
       1661
   Buthus occitanus venom in, cardiovascular
       effects of 3237
   cantharidin in, detecting of 910
   Cheyletiella parasitivorax on
in Netherlands 418
in South Africa 417
   Culicidae on, effects of host activity on
   Dermacentor andersoni on, resistance to
       2224
   D. marginatus on, development of 1486
   D. variabilis on, hypersensitivity to 1433
   Dermatophagoides farinae on,
hypersensitivity to 285
   D. pteronyssinus on, hypersensitivity to 285
```

```
Rabbit contd.
  Glossina spp. on
     amyloidosis caused by 371
      feeding by 1115
   G. morsitans on, rearing of 1934
   G. palpalis on
     effects of drugs in host on 1121
     effects of drugs on 2835
rearing of 565, 3137
   Haemaphysalis hispanica on, in Spain
       1479
   Hyalomma anatolicum on, rearing of
       919
   H. impressum on, feeding by 647
   Ixodes ricinus on
     detachment of 918
      immunity to, transfer of 1751
   Ixodoidea on, in Spain 1494
   laboratory, veterinary problems with
       2467
   Leporacarus gibbus on, in Netherlands
      418
   mite control on, acaricides for 1218
   myxoma virus in, and biological control
       using, in Western Australia 2365
   Odontopsyllus quirosi on, in Spain 1482
   Ornithodoros moubata on, immunity to
   Otobius megnini on, development of
       1764
   preying on, Glossina austeni 1115
Psoroptes cuniculi on, ingestion of
erythrocytes by 3229
   Rhipicephalus appendiculatus on, humoral response to 3194
   R. bursa on, development of 1487
   R. sanguineus on, feeding by 657
   Simulium mexicanum on, feeding by
       1368
   Siphonaptera on, in Spain 1494
  Spilopsyllus cuniculi on
in Victoria 1549
in Western Australia 2365
      reproduction by 475
   tick-borne spiroplasmas in, pathogenicity
            3189
Rabbit blood, dried, diet component for,
    Spilopsyllus cuniculi 2349
Rabbit burrows, Coleoptera in, in Sweden
Rabbit carcasses, arthropod communities in
    452
Rabbit, eastern cottontail (see Sylvilagus
    floridanus)
Rabon (see Tetrachlorvinphos)
Raccoon (see Procyon lotor)
rackae, Petauralges
Radar
mosquito studies using 1248
use in entomology of 1247, 1249, 1250,
1251, 1252, 1254
use in pest management of 1253
Radfordia allactaga
  sp. nov., description of 2247 in Mongolia 2247
   on Allactaga sibirica, in Mongolia 2247
Radfordia ewingi, on Zapus, in North
America 1447
Radfordiella, on mammals, in Mexico 2583
Radiation, use in entomology of 2287, 2688
Radiation, gamma
effects of, on
Aedes caspius 526
     Anopheles albimanus 1317
      A. stephensi 514
     Argas arboreus 1760, 1767
Culex tarsalis 1869, 3092
Glossina palpalis 565, 2722
Musca domestica 1949, 2492
  Theileria annulata 2617 uses in entomology of 22
Radiation, ultraviolet, effects of, on, Nosema algerae 1334
Radiculitis, in man, caused by wasp sting
    242
Radioallergosorbent test (see
    Radioimmunoassay)
Radioimmunoassay
  for diagnosing hypersensitivity to house-
dust mites 2234, 2237
for diagnosing hypersensitivity to
Hymenoptera 2035
```

Rattus legata

Polyplax reclinata on, in Japan P. spinulosa on, in Japan 708

Rattus niche Radioimmunoassay contd. Schoengastia spp. on, in Papua New Guinea 3221 for diagnosing hypersensitivity to Hymenoptera stings 3182, 3185 for diagnosing hypersensitivity to Hymenoptera venoms 2198 for diagnosing hypersensitivity to stinging Rattus nitidus insects 2201 for estimating potency of house-dust mite allergen extracts 2924 1212 for measuring IgG antibodies to house-dust mites 2649 Ragadan (see Heptenophos) Raillietia auris in Brazil 2230 on sheep, distribution pattern of 2230 Raisins and sultanas, diet component for, Anopheles culicifacies 1911 ralfi. Atelenalme ramosellus, Onthophagus ramsavi. Anopheles Rattus rattus Raphignathidae, in house dust, in Brazil Raphignathus youngi (see Stigmaeus youngi) raptor, Culex (see C. halifaxii) raptor, Muscidifurax RAST (see Radioimmunoassay) Rat (see also named species) Apis mellifera venom in, effects on brain Rattus ruber of 1422 Buthus occitanus venom in, cardiovascular effects of 3237 cantharidin in, detecting of 910 Dermacentor variabilis on, feeding by 1188 dicofol in, toxicity of 3250 heptachlor in, toxicity of 3250 Latrodectus antheratus venom in, releasing levarterenol from arteries L. tredecimguttatus venom in, effects on neurotransmission of 2252 methomyl in, toxicity of 697 phosmet in embryotoxic effects of 1808 teratogenic effects of 1808 pyrethroids in effects of 435 toxicity of 1464 tick-borne spiroplasmas in, pathogenicity of 3189 Tityus serrulatus venom in, effects on gastric secretion of 290 Triatoma barberi on, in Mexico 3023 Trypanosoma cruzi in, in Brazil 2077 Ravinia querula in USA 1724 Rat, bushy-tailed wood (see Neotoma cinerea) Rat, hispid cotton (see Sigmodon hispidus) Rat, kangaroo (see Dipodomys) Raxdan virus Rat, spiny, Rhodnius pallescens on, in Panama Canal Zone 21 Rattus 2000 Amblyomma cyprium on in New Hebrides 2207 in Queensland 2207 in Solomon Islands 2207 Leptotrombidium deliense on, in Taiwan 939 mite control on, acaricide-impregnated baits for 939 Rattus argentiventer, Gahrliepia doratanae on, in Java 2231

Rattus bartelsii, Gahrliepia doratanae on, in
Java 2231 Rattus coxingi, Herpetacarus breviclavus on, in Yunnan 2913 Rattus edwardsi Herpetacarus aristatoclavus on, in Yunnan 2913 Leptotrombidium guangdongense on, in tarsalis Guangdon Province 1215 Paraceras brevimanubrium on, in China 2343 Rattus flavipectus, Herpetacarus hastoclavus on, in Yunnan 2913 Rattus fulvescens, Gahrliepia doratanae on, in Java 2231

Rattus fuscipes, Haemaphysalis doenitzi on, feeding by 1200

Trombiculidae on, in Papua New Guinea Gahrliepia hegu on, in Yunnan Province Herpetacarus tenuiclavus on, in Yunnan 2913 Rattus norvegicus Amblyomma maculatum on, effects of diet on 410 2407 Culex portesi on, in French Guiana 3030 Hoplopleura oenomydis on, in Japan Xenopsylla cheopis on, in Japan 708
Xenopsylla cheopis on, in Ryukyu Islands
718 Rattus rajah, Leptotrombidium deliense on, in West Malaysia 3217 Hoplopleura oenomydis on, in Japan 708 Leishmania spp. in, in Italy 2142 Leptopsylla segnis on, in Ryukyu Islands Polyplax spinulosa on, in Japan Trypanosoma cruzi in, in Brazil 2078 Xenopsylla cheopis on, in Ryukyu Islands 718 Odontacarus unisetosa on, in Papua New Guinea 1788 Schoengastia roselli on, in Papua New Guinea 3221 Trombiculidae on, in Papua New Guinea Rattus sabanus, Alabidopus bipilifer on, in Thailand 3219
Rattus surifer, Rickettsia tsutsugamushi in, in West Malaysia 3217
Rattus tunneyi, Alabidopus muris on, in Western Australia 1445
Rattus turkestanicus, Leptotrombidium derlatkoi on, in Tadzhikistan 932
Rattus vergeunde. Odontaarus uniestoca 2862 Rattus verecundos, Odontacarus unisetosa on, in Papua New Guinea 1788

Ratufa affinis, Haemolaelaps bidens on, in West Malaysia 2715 Ratufa bicolor, Haemolaelaps bidens on, in West Malaysia 2715 rausai, Topomyia rauschi, Rhadinopsylla Ravinia, in cattle dung, effects on bacteria and fungi of 2989 refiki, Aedes in cattle dung, in California 17 parasites of, in California 1724 predators of, in California 1724 characterization of 2000 Reindeer in, Dermacentor marginatus, in Armenia Raza virus, in, Ornithodoros denmarki, in North America 2974 Reagins (see Antibodies) Reagins (see Anno-Rearing techniques Aedes dorsalis 815 A. fluviatilis 964 sierrensis 1882 2615 Repellents A. togoi 140 Anopheles albimanus 1618, 2129 A. culicifacies 1907
A. sinensis 82
A. stephensi 2385
Cimex lectularius 1668
Cochliomyia hominivorax 899, 2275 Coelomomyces punctatus 2802 Culex pipiens 1906 C. quinquefasciatus 1554 1868 2742 Culicidae 1621 Dermatophagoides farinae 2569 D. pteronyssinus 271, 1209 Dictya umbrarum 898 Dipetalogaster maxima Drosophila gibbinsi 474 1668 Dugesia dorotocephala 1861 Glossina 729 G. morsitans 370, 1934 G. pallidipes 2828 G. palpalis 565, 3137 Haematobia irritans 1407

Rearing techniques contd. Hyalomma anatolicum 919 Leptotrombidium deliense 938 Monomorium pharaonis 238, 2199 Musca domestica 3171 Muscidifurax raptor 213 Myospila meditabunda 2164 Panstrongylus megistus 1668 Pediculus capitis 63, 1273 P. humanus 63 Rhodnius prolixus 1668 Romanomermis culicivorax 104, 521, R. nielseni 1304 Sepedon sphegeus 224 Simulium spp. 2148 Spalangia endius 213 Spilopsyllus cuniculi 2349 Stomoxys calcitrans 215 S. nigra 580, 626 Tabanus nigrovittatus 1166
T. rubidus 726
Toxorhynchites amboinensis 2783 T. brevipalpis 827
T. rutilus 1613 Triatoma brasiliensis 1668 T. infestans 1668 Trypanosoma brucei 568, 2469 quality control in 2275 Rebemide (see Benzamide, N.N-diethyl-) Rebephthale (see Benzamide, N,N-diethyl-, with dimethyl 1,2-benzenedicarboxylate) reclinata, Polyplax reclusa, Loxosceles reconditus, Culicoides Recreation areas, Tabanidae in, in USA Reductase, cytochrome c (reduced nicotinamide adenine dinucleotide phosphate), in Musca domestica microsomes, purification of 398
Reductase, 5,10-methylenetetrahydrofolate, in Aedes aegypti, effects of Brugia pahangi on activity of 17 Reductase, pyrroline-5-carboxylate, in Phormia regina flight muscles, role in proline shuttle of 1948 Reduviidae, Trypanosoma cruzi in, other flagellates confused with 1019 Redwater fever, seasonal incidence of 2952 Reesimermis nielseni (see Romanomermis nielseni) reflexus, Argas Refrigerators, Blattella germanica in, in East Germany 642
Refuse tips (see Rubbish dumps) regina, Phormia Cephenemyia trompe on, in USSR 1124 Oedemagena tarandi on, in USSR 1124 Tabanidae on, in Siberia 601 Relapsing fever, tick-borne, in Colorado remota, Palaeopsylla Remote sensing, for detecting potential insect breeding sites 799, 1315 evaluating of 802 mosquito control using 472 role in control of Acari of sales of, in Finland 3243 substances tested as: carbamates derived from N,N'disubstituted diamines 2741
Ocimum sanctum leaf extracts 786
plant extracts 246, 2262
N-substituted ureas and cyclic ureas synonyms of 954 Reports (1976-77) Waite Agricultural Research Institute, South Australia 8 World Health Organization 1505 Reports (1976-78) Agriculture Canada Research Branch 2694 Agriculture Canada Research Station, Vancouver 2014 Biological and Chemical Research Institute, New South Wales 895

| Subject Index | | 535 |
|--|--|---|
| Reports (1977-78), Federal Research | Reviews contd. | Rhipicephalus |
| Institute for Dairy Science, Switzerland | genetic regulation of susceptibility to | control of, acaricides for 254 |
| 2181 | parasites 1817 | Rickettsia spp. in, transmission of 2574 |
| reptans, Simulium Reptilia | Hemiptera biting man 1011, 1012 Heteroptera scent glands 997 | Rhipicephalus appendiculatus |
| Culex peccator on, in Florida 1308 | hormonal regulation of insect development | acaricide resistance in analysis of survey data on 2551 |
| C. pilosus on, in Florida 1308 | and metabolism 2689 | in South Africa 2016 |
| Glossina fuscipes on, in Uganda 3133 | house-dust allergy 1782 | biology of 2549 |
| Reserpine, in Periplaneta americana, effects | Hymenopterous pheromone complexity | cell cultures from 2976 |
| on serotonin synthesis of 2053 | 32, 33 | control of, acaricides for 644, 2552, |
| Residential areas, Culicidae in, in California 95 | identifying of vector mosquitoes 830 identifying of vector Simuliids 858 | 2554, 2897 dieldrin resistance in, inheritance of 2597 |
| Resmethrin ([5-(phenylmethyl)-3- | in vitro feeding of blood-sucking | dispersal of 1995 |
| furanyl]methyl 2,2-dimethyl-3-(2-methyl- | arthropods 7 | diurnal activity in 1985 |
| 1-propenyl)cyclopropanecarboxylate) | insect chemosensilla 2298 | in Kenya 644, 1985 |
| against | insect cuticle hardening and coloration 2693 | in South Africa 655, 1995, 2016, 2552 |
| Aedes spp., in woodland 1610 | insect filter-feeding 2300 | in Zimbabwe 654, 1182 lindane resistance in, inheritance of 2597 |
| A. aegypti 801 | insect heartbeat regulation 2844 | on cattle |
| Culex quinquefasciatus 801 Musca domestica 2852, 2869 | insect moulting physiology 997 | in Kenya 1985 |
| in Toxorhynchites rutilus, toxicity of 801 | insect muscle fibres 997 | in South Africa 655, 2552 |
| sunlight stability of 2937 | insect neural development 997 insect spermatogenesis regulation 2302 | in Zimbabwe 654, 1182 on livestock, effects of stocking density on |
| (1R-cis)- (see Cismethrin) | insect tissue culture 2299 | 1988 |
| (1R-trans)- (see Bioresmethrin) | insect vitellogenins 997 | on rabbit, humoral response to 3194 |
| Respiratory hypersensitivity | insecticide hazards to honeybees 163 | population dynamics of 1182 |
| to Accards in man 2650 | intracellular symbionts in Homoptera | seasonal abundance of 655 |
| to Ascaris, in man 1798 to Blattaria, in man 675 | 2301 invertebrate immunity 2306 | sex pheromone of 2578 Theileria parva in |
| to Blattella germanica, in man 2701 | Ixodid pheromones 1185 | heat-induced development of 2221 |
| to Cheyletus, in man 2920 | Leishmania taxonomy and transmission | transmission of 2950, 2955 |
| to Cladotanytarsus lewisi, in man 886 | 1926 | toxaphene resistance in, in Kenya 644 |
| to <i>Dermatophagoides</i> , in man 2701, 2920 | lipid digestion and absorption in insects | weather as affecting 2955 Rhipicephalus bursa |
| to Dermatophagoides farinae, in man | Loxosceles reclusa envenomation 951 | acaricide resistance in, thresholds of |
| 675, 2566, 3222 | malaria and agricultural development | 2605 |
| to Dermatophagoides pteronyssinus | 2403 | control of |
| in guinea-pig 2238 | Marburg virus disease 991 | acaricides for 246, 2605 |
| in man 422, 937, 1209, 1217, 1443, 1516, 1790, 1798, 2234, 2236, 2566, | mosquitoes and malaria 2379 non-target effects of mosquito control | repellents for 246 Coxiella burneti in, transmission of 2571 |
| 2645, 2648, 2649, 2650, 3228 | 175 | in Spain 1487 |
| to Glycyphagus domesticus, in man 2650 | onchocerciasis and agricultural | in USSR 1187 |
| to house dust, in man 1443 | development 2458 | in Yugoslavia 2217 |
| to house-dust mites, in man 1219, 2237 | pest control on domestic animals 2296 | on cattle, in Spain 1487 |
| to Lepidoglyphus destructor, in man 2650 | pheromonal communication in insects 30 pyrethroid insecticides 1807 | on rabbit, development of 1487 trichlorphon resistance in, development of |
| to Micropolyspora faeni, in man 1207 | Rift Valley fever 976 | 2220 |
| to Periplaneta, in man 1516 | tanning of insect cuticle 871 | Rhipicephalus cuspidatus, in Sudan 2007 |
| to Periplaneta americana, in man 2327 | Triatomine behaviour 492 | Rhipicephalus evertsi |
| to storage mites, in man 1207 | trypanosomiasis control and land use | acaricide resistance in, analysis of survey |
| to Tyrophagus putrescentiae, in man 2650 | 2464 Vespid social behaviour evolution 2303 | data on 2551 in Zimbabwe 654, 1182 |
| Respiratory sounds, in man, caused by | water balance in insects and mites 1503 | on cattle, in Zimbabwe 654, 1182 |
| Grylloidea 2896 | Rhabdopedilon longicornis | population dynamics of 1182 |
| Restaurants | descriptions of 1529 | Theileria ovis in, development of 2627 |
| Blattella germanica in, in Japan 749 | in Poland 1529 | Rhipicephalus evertsi evertsi |
| cockroach control in, traps for 481 restuans, Culex | on Cervus elaphus, in Poland 1529 Rhadinopsylla, on gerbil 1021 | acaricide resistance in genetics of 1179 |
| reticulatus, Dermacentor | Rhadinopsylla integella, in Bulgaria 330 | in South Africa 2016 |
| Retinal pigments | Rhadinopsylla li | control of, acaricides for 644, 1179, 2897 |
| in Lucilia cuprina, in yellow mutant | in USSR 2346 | dieldrin resistance in 2897 |
| in <i>Triatoma infestans</i> , acetylcholinesterase | on Citellus musicus, in Caucasus 2346 seasonal abundance of 2346 | in Kenya 1179 dimethoate resistance in 2897 |
| inhibition by 2079 | Rhadinopsylla pseudodahurica | dispersal of 1995 |
| Retinitis, in mammals, caused by tick-borne | biotopes of 499 | in Kenya 644, 1179 |
| spiroplasmas 3189 | in USSR 499 | in South Africa 655, 1995, 2016 |
| Reviews Anopheles feeding habits 3057 | on small mammals, in USSR 499 Rhadinopsylla rauschi | in Tanzania 1179 lindane resistance in, in Kenya 1179 |
| Apis mellifera venom 633 | sp. nov., description of 1029 | on cattle, in South Africa 655 |
| arthropods as pests and disease vectors | in Canada 1029 | seasonal abundance of 655 |
| 2295 | on Peromyscus maniculatus, in | toxaphene resistance in, in Kenya 644, |
| atmospheric water absorption in arthropods 997 | Saskatchewan 1029 | Rhipicephalus guilhoni, in Sudan 2007 |
| attractants for insect control 470 | Rhinitis, allergic, perennial in man | Rhipicephalus haemaphysaloides |
| Babesia epidemiology 2210 | caused by Periplaneta americana 2327 | in India 48, 268, 2898 |
| babesiosis in man 250 | caused by storage mites 1207 | on Asian buffalo, in Punjab 268 |
| biological control 2292 | role of Dermatophagoides pteronyssinus | on cattle, in Punjab 268 |
| bluetongue in cattle 123 chemical ecology of Culicidae 1871 | in 2645 role of house-dust mites in 3222 | on Elephas maximus, in Karnataka 2898 on goat, in Punjab 268 |
| chiroptical inducibility and biological | Rhinoestrus | on horse, in Punjab 268 |
| activity of insect pheromones 31 | descriptions of 2474 | Theileria ovis in, transmission of 3188 |
| cockroach gregariousness 35 | on antelope, in Africa 2474 | Rhipicephalus haemaphysaloides |
| cockroach pheromones 34 collecting methods for Chloropidae 231 | Rhinoestrus hippopotami in Zimbabwe 1122 | haemaphysaloides, in India 1436 Rhipicephalus pulchellus |
| Crimean-Congo hemorrhagic fever 256 | on Hippopotamus, in Zimbabwe 1122 | aggregation in 2909 |
| Crimean hemorrhagic fever 1198 | Rhinoestrus purpureus | control of, acaricides for 644 |
| ecological basis for pest management | control of, insecticides for 3141 | in Kenya 644, 2909 |
| 2263 | distribution of 1674 | toxaphene resistance in, in Kenya 644 |
| ecology of California group viruses 826 environmental health criteria for DDT | in USSR 2839, 3141 on horse 1674 | Rhipicephalus pusillus in Spain 1494 |
| 1230 | in Kazakhstan 2839 | seasonal abundance of 1494 |
| epidemiology of scabies 1793 | in USSR 3141 | Rhipicephalus rossicus |
| genetic control of insects 2268, 2269 | Rhinolophus, Eyndhovenia spp. on 282 | in USSR 2219 |

Rhipicephalus rossicus contd. on rodents, in Ukraine 2219
Salmonella spp. in, persistence of 2626 Rhipicephalus sanguineus ammonia in, receptors for 1982 Anaplasma marginale in, trans-stadial transmission of 2601 Babesia spp. in, transmission of 2950 B. canis in, transmission of 920 control of, acaricides for 2591, 2595, 2614, 3245 Coxiella burneti in, transmission of 2571 digestion in 1980 dioxathion resistance in, in Kenya 644 eggs of, separating from females of 1184 habitats of 2613 in Egypt 920 in India 48, 268 in Italy 2613 in Ivory Coast 2614 in Kenya 644 in Netherlands 2912 in Poland 2630, 3195 in USA 2591, 2623 in West Germany 920 920, 2594 in Zimbabwe 654 in dwellings, in Poland 2630, 3195 on Canis lupus, in Florida 200 2591 on Canis lupus × C. familiaris, in Florida zoo 2591 on cattle feeding by 260 in Punjab 268 2601 in Zimbabwe 654 on dog in Florida zoo 2591 in Florida 200 2591 in Ivory Coast 2614 in Mississippi 2623 in Netherlands 2912 in Poland 2630, 3195 in Punjab 268 in West Germany 2594 on goat, in Punjab 268 on man, in West Germany 2594 on Mus musculus, in Mississippi 2623 on Sigmodon hispidus, in Mississippi parasitised by, Hunterellus hookeri 474 proteins in, synthesis of 1980 Rickettsia rhipicephali in 1762 salivary glands in, functional morphology of 1983 sex pheromone of 2578 taxonomy of, characters distinguishing Ixodes ricinus and 2594 Rhipicephalus sanguineus sanguineus, biology of 657 Rhipicephalus simus in South Africa 655 in Zimbabwe 654 on cattle in South Africa 655 in Zimbabwe 654 seasonal abundance of 655 Rhipicephalus sulcatus, in Sudan Rhipicephalus tricuspis in Zimbabwe 654 on cattle, in Zimbabwe 654 Rhipicephalus turanicus control of, acaricides for 246

Coxiella burneti in, transmission of 2606
in India 268, 1204
in Sudan 2007 on Asian buffalo, in Punjab 268 on Asian buffalo, in Punja on cattle, in Punjab 268 on dog, in Punjab 268 on goat, in Punjab 268 on sheep, in Punjab 268 rhizomydis, Rhyzolaelaps rhizomydis, Tylolaelaps Rhizomys pruinosus Rhyzolaelaps lodianensis on, in China 2640 Tylolaelaps rhizomydis on, in China 1214 Rhizomys sinensis Laelaps pachysternus on, in China 2655 Rhyzolaelaps rhizomydis on, in China 2655 Rhodacantha nelsoni

sp. nov., description of 1216 in Australia 1216 Rhodacantha nelsoni contd. on Antechinus swainsonii, in Victoria 1216 taxonomy of, characters distinguishing R. tenax and 1216 Rhodacantha tenax sp. nov., description of 1216 in Australia 1216 on Sminthopsis leucopus, in Victoria 1216 taxonomy of, characters distinguishing R. nelsoni and 1216 Rhodesia (see Zimbabwe) rhodesiensis, Anopheles Rhodniini, taxonomy of 1276 Phodning moulting cycle in, basement membrane formation during 1280 tissue cultures from 2299 Rhodnius brethesi, in Brazil 1279 Rhodnius ecuadoriensis descriptions of 1276 Trypanosoma cruzi in, transmission of 1276 Rhodnius neglectus colony development in 2069 in Brazil 2069 in poultry houses, in Brazil 2069 Rhodnius pallescens descriptions of 1276 hosts of 21, 3024 in Panama 21, 3024 Trypanosoma cruzi in in Panama 21 transmission of 1276

T. rangeli in, in Panama 21 Rhodnius pictipes in Brazil 1279 in Venezuela 69 traps for 69 Rhodnius prolixus
adult development in, effects of bloodfeeding on 323 behaviour in 492 control of growth regulators for 76 insecticides for 70, 74, 1540 descriptions of 1276 dieldrin in, sublethal effects of digestive enzymes in 325, 761 egg production in effects of growth regulators on 2067 effects of larval feeding on 72 enzymes in 65 fecundity in 494 feeding behaviour in 73 flight activity in, hemolymph volume changes during 1537 growth regulators in, effects on fecundity of 494 habitats of 101 in Brazil 1015 1015 in El Salvador in Mexico 1278 in Venezuela 69, 73, 2706 in dwellings in El Salvador in El Salvador 74
in Mexico 1278
in Venezuela 73, 2706
in fowl houses, in Brazil 1015
insect growth regulators in, effects on
eclosion of 76
intracellular symbionts in 2301
juvenile hormones in 1508
developmental changes in 1275 developmental changes in 1275 Malpighian tubules in, potassium transport in 763 mid-gut in 1013 moulting hormones in, developmental changes in 1275 muscles in, developmental changes in 2073 neurosecretion in 2068 on man, in Venezuela 73 ovarian development in effects of ecdysones on inhibited by ecdysones 760 ovaries in, effects of JH on 65 oviposition in effects of moulting hormones on inhibited by ecdysones 760 parasites of, competition between 2072

parasitised by Ooencyrtus trinidadensis 2072 Telenomus costalimai 71, 2072 pepstatin in, inhibiting moulting and oviposition 325 pharyngeal pump in, effects of diet viscosity on 762 rearing of, techniques for 1668 smooth septate junctions in 2521 thoracic glands in, developmental changes in 1843 traps for 69 Trypanosoma cruzi in 2074 in El Salvador 74 transmission of 1276 xenodiagnosis of 1278 T. rangeli in in El Salvador 74 invasion of hemolymph by Venezuelan equine encephalitis, virus in, not transmitted 2076 vitellogenesis in, effects of moulting hormones on 490 rhombifolia, Neostylopyga Rhombomys opimus dispersal of, barriers to 557 eradication of, Phlebotominae as affected by 2139 Ixodoidea in burrows of, in Uzbekistan 1747 Leishmania spp. in in Afghanistan 837 in Turkmenia 1104 L. tropica in, in USSR 44
Polyplax opimi on, in Tadzhikistan 60 Siphonaptera on exchange with Meriones of 2348 geographical distribution of 1025 Xenopsylla spp. on detecting plague antibodies in 1027 in Kazakhstan 1846 X. gerbilli on, effects of physiography on 1026 X. nuttalli on, in USSR 1023 X. skrjabini on feeding by 1024 feeding by 1024 in USSR 1023 Rhopalidia, nests of, distinguishing Vespula germanica nests and 2535 Rhopalocera, body temperature in, measuring of 1261 Rhyacophila dorsalis
in UK 1114
insecticides in, toxicity of 1114 preying on, Simulium spp. 1114
Rhynchoidomonas, biology of 45 Rhynchomesostoma rostratum biology of 1883 preying on Anopheles freeborni, in California 1883 Culex tarsalis, in California 103, 1883 Rhyzolaelaps lodianensis sp. nov., description of in China 2640 on Rhizomys pruinosus, in China 2640 Rhyzolaelaps rhizomydis sp. nov., description of 2655 in China 2655 on Rhizomys sinensis, in China 2655 Ribonucleic acids in Anopheles albimanus, synthesis of in Anopheles quadrimaculatus, synthesis 1325 in mosquito cell lines, insect growth regulators inhibiting synthesis of 2421 in mouse cell lines, insect growth regulators inhibiting synthesis of 2033 in Musca domestica, developmental changes in 880, 1691 in Parasarcophaga ruficornis ovarioles, effects of thiourea on synthesis of in Periplaneta americana, effects of dimethoate on 320 Ribonucleic acids, messenger, in Calliphora vicina salivary glands, accumulation of

| Ribonucleic acids, transfer | Rickettsiaceae | Rodents |
|--|--|--|
| in Lucilia sericata 396 in Musca domestica 396 | Culex australicus, in Western Australia | Acari on |
| in Tenebrio molitor 396 | 1632 | in Hungary 1745 in Poland 1497, 1498 |
| Rice (Oryza sativa) | C. globocoxitus, in Western Australia | Anoplura on, in Poland 1498 |
| Chironomidae on, in California 2804 | 1632 | Culex opisthopus on, in Florida 1308 |
| Rice-fields | C. pipiens, role in cytoplasmic | Dermacentor variabilis on, resistance to |
| Aedes melanimon in, in California 100 | incompatibility of 1593 | 259 |
| Anopheles freeborni in, in California 90, | insects, diagnostic manual 2031 | Gamasidae on, in Hokkaido 2009 |
| 101, 103, 107, 1865, 1883, 2761 A. sinensis in | Ixodes ricinus, in Switzerland 412, 2206 | Ixodes ovatus on, in Nepal 1993 Myobiidae on, in Western Australia 946 |
| distribution pattern of 3071 | man | Polygenis tripus on, in Brazil 497 |
| in Hokkaido 2740 | arthropod transmission of 2279 | Saint Louis encephalitis, virus in, in Brazi |
| in Honshu 1319 | in Costa Rica 2208 | 1050 |
| Chironomidae in, distribution pattern of | riethi, Culicoides | Siphonaptera on ecological regulation of 2713 |
| 1137 | Rift Valley fever | in Colorado 1028 |
| Culex modestus in, in France 968 | distribution of 1349 | in Poland 1498 |
| C. pipiens in, distribution pattern of 3071 | in Israel 2992 review 976 | Triatoma barberi on, in Mexico 3023 |
| C. tarsalis in, in California 90, 100, 103, | virus | Trombiculidae on, in Papua New Guinea |
| 107, 1865, 1883, 2761 | in | 1772 rogeri, Strumigenys |
| C. tritaeniorhynchus in | cattle, in Sudan 3064 | rohaniae, Haemolaelaps |
| dispersal of 2433 | Culex pipiens | Rolitetracycline, against, Theileria annulata, |
| distribution pattern of 3071 | in Egypt 2362 | in cattle 3198 |
| in Japan 790 | transmission of 2362 | Romania |
| in Kyushu 168 Culicidae in | Culicoides spp., in Nigeria 857 domestic animals, in Egypt 2361, | Anopheles spp. in 1322 Culex pipiens in, viruses in 2430 |
| in California 95 | 2362 | Diptera in, on sheep 2529 |
| in Gambia 1330 | man, in Egypt 2361, 2362 | Laelaps agilis in, on small mammals 672 |
| in Louisiana 1620 | vectors of 976, 980 | Romanomermis communensis |
| sampling of 90 | riggenbachi, Pariodontis | embryonic development in, effects of |
| Gambusia affinis in | rimator, Phidippus | in, Aedes communis, in Manitoba 782 |
| diel activity of 107 | Rio Bravo virus, in, Aedes dorsalis, not | Romanomermis culicivorax |
| population dynamics of 1863 | replicating 1578 | against |
| seasonal migration of 107 stocking methods for 108 | Riparia riparia Ixodes lividus in nests of, in Karelia 916 | Aedes polynesiensis 2375 |
| Hydrophilidae in | I. lividus on | A. samoanus 2375 A. vexans 1891 |
| effects of pesticides on 1854 | in East Germany 649 | Anopheles crucians 141, 1891 |
| in California 100 | in West Germany 1753 | A. freeborni 101 |
| mosquito control in, lecithin monolayers | Risella 17 oil | in rice-fields 1865 |
| for 1560 | in Lucilia sericata, leg paralysis caused by | A. punctipennis 1891 |
| Psorophora columbiae in, in Texas 1094 | in Musca domestica, toxicity of 399 | A. quadrimaculatus 141 |
| Sphaerodema urinator in, in Egypt 1039 richiardii, Coquillettidia (Mansonia) | in <i>Phormia terraenovae</i> , leg paralysis | Culex erraticus 141 C. pipiens 1891 |
| richiardii, Mansonia (see Coquillettidia | caused by 399 | C. restuans 1891 |
| richiardii) | in Sarcophaga argyrostoma, leg paralysis | C. tarsalis, in rice-fields 1865 |
| richteri, Solenopsis | caused by 399 | Culicidae 1047 |
| ricini, Philosamia cynthia (see Samia | Risella 33 oil in Lucilia sericata, leg paralysis caused by | Simulium verecundum 2825 S. vittatum 2825 |
| cynthia ricini) | 399 | benomyl in, toxicity of 105 |
| ricini, Samia cynthia | in Phormia terraenovae, leg paralysis | Catenaria anguillulae in |
| Pickettsia akari in Allodarmanyssus | caused by 399 | control of 105 |
| Rickettsia akari, in, Allodermanyssus sanguineus, transmission of 2574 | Ritsifon (see Trichlorphon) | pathogenicity of 104 |
| Rickettsia burneti (see Coxiella burneti) | River basins, mosquito control in 1615 River drainages, aquatic insects in, in Maine | culture methods for 104, 2407 development in 294 |
| Rickettsia canada, tick lysozyme in, effects | 1552 | dispersal of 822 |
| of 1748 | River floodplains, Culicoides spp. in, in | host density as affecting 2787 |
| Rickettsia conori, vectors of 2574 | Ukraine 2807 | in |
| Rickettsia prowazekii | Rivers | Aedes albopictus, infectivity of 822 |
| Glaucomys volans 2703 | DDT in, residues of 968 invertebrates in, as indicators of water | A. togoi, infectivity of 822 A. triseriatus, defence mechanisms |
| man, in USA 2703 | quality 1499 | against 1900 |
| tick lysozyme in, effects of 1748 | Simuliidae in, sampling of 1819 | Armigeres subalbatus, infectivity of |
| Rickettsia rhipicephali | temephos in | 822 China and a said and a said |
| in, Rhipicephalus sanguineus 1762 ultrastructure of 1762 | effects on fish of 3117 non-target effects of 1928 | Chironomus spp., pathogenicity of 1370 |
| Rickettsia rickettsi | Rivers, tropical, Bacillus thuringiensis in, | Culex molestus, infectivity of 2787 |
| in | effects on invertebrates of 192 | C. pipiens, infectivity of 822 |
| Dermacentor andersoni, detecting of | riversi, Aedes | C. quinquefasciatus |
| 921 D variabilia avarraintarina af 2560 | RNA (see Ribonucleic acids) | comparative elemental composition of |
| D. variabilis, overwintering of 2560 small mammals, in Washington 2557 | Roadside drains mosquito control in | 2406 infectivity of, effects of pH on 1626 |
| vectors of, ecology of 2557 | Bacillus thuringiensis for 3066 | C. territans |
| Rickettsia sibirica | insecticides for 2743 | defence mechanisms against 1900 |
| in N. W. I. MIGOR 2011 | robustus, Atrax | not infective 1891 |
| Dermacentor nuttalli, in USSR 2911 | Rocio virus control of 1065 | Culicidae 1305 Simulium damnosum, pathogenicity of |
| D. pictus, in Crimea 2911 tick lysozyme in, effects of 1748 | ecology of 1065 | 1370 |
| Rickettsia slovaca | epidemiology of 1065 | S. venustum, pathogenicity of 1370 |
| in | in, man, in Brazil 3056 | S. vittatum, not infective 1047, 1891 |
| Dermacentor marginatus, in Hungary | in Americas 1065 | insect growth regulators in, toxicity of |
| D. reticulatus, in Hungary 1439 | ransmission of 3056 Rock holes, Culicidae in, in Saskatchewan | 1891 insecticides in, toxicity of 1891 |
| vectors of 2574 | 152 | lipids in, and in hosts 2820 |
| Rickettsia tsutsugamushi (see also Scrub | Rocky Mountain spotted fever, incidence of, | methoprene in, not toxic 112 |
| typhus) | relation of DDT use and 1758 | population density as affecting 2407 |
| in man in Taiwan 2019 | Rodent burrows, Phlebotominae in, in West | predators of 106 |
| man, in Taiwan 2919 Rattus surifer, in West Malaysia 3217 | Africa 3116 Rodent feed, diet component for, | temperature as affecting 521 temperature requirements of 1304 |
| vectors of, land use changes as affecting | Spilopsyllus cuniculi 2349 | with malathion, compatible 1047 |
| 2695 | Rodenticides, sales of, in Finland 3243 | with methoprene, compatible 1047 |

Romanomermis culicivorax contd. with temephos, not compatible 1047 Romanomermis nielseni culture methods for 1304 Aedes aegypti, rearing of 1304 Culex restuans, rearing of 1304 mosquito control using, registration not required for 2393 Romerolagus diazi Chevletiella mexicana on, in Mexico 287 C. parasitivorax on, in Mexico 287 Ronnel (see Fenchlorphos) Rook (see Corvus frugilegus)
Ropalidia, in Nepal 1174
Rosa palustris, Tabanidae on, in Connecticut 387 Rosacea, in man, caused by Demodex folliculorum 3224
Rosaceae, Tabanidae on, in Connecticut Rose Bengal in Aedes triseriatus, light-dependent toxicity of 1573 in Culex quinquefasciatus, light-dependent toxicity of 1573 in Musca domestica, light-induced toxicity of 385 roselli, Schoengastia
Rosemary (Rosmarinus officinalis)
repellent activity of extracts of 2262 Rosmarinus officinalis (see Rosemary)
Ross River virus, in, Culicidae, in
Queensland 3084 rossicus, Aedes rossicus, Rhipicephalus rostrata, Australophyra Rotenone against, Hypoderma spp., on cattle 2512 in Culex pipiens cell lines, effects on growth and respiration of 1043 in Trypanosoma theileri, inhibiting oxygen uptake 1388 rothschildi, Ixodes Rotifera 1657 Rotifers, culture methods for 1657 rotundatus, Cimex (see C. hemipterus) rotundatus, Cimex (see C. hemipterus) RU-11679 (see Bioethanomethrin) RU-15525 (see Cyclopropanecarboxylic acid, 3-[(dihydro-2-oxo-3(2H)-thienylidene)methyl]-2,2-dimethyl-, [5-(phenylmethyl)-3-furanyl]methyl ester, [1R-[1 α ,3 α (E)]]-) Rubbish dumps fly control in Musca domestica in, in Honshu 2488 Phoridae in, in USSR 1400 rubicundulum, Simulium rubida, Triatoma rubidus, Tabanus rubrofasciata, Triatoma rubrovaria, Triatoma rudis, Pollenia Ruelene (see Crufomate) rufa, Formica rufescens, Loxosceles rufibarbis, Formica rufibasis, Simulium ruficornis, Parasarcophaga (see Sarcophaga ruficornis) ruficornis, Sarcophaga (Parasarcophaga) rufidens, Tabanus ruffiacies, Chrysomya rufipes, Anopheles rufipes, Aphodius rufipes, Hyalomma marginatum rufipes, Megaselia rufotuberculatus, Panstrongylus rugglesi, Simulium rugicollis, Ixodes (Pholeoixodes) rugicollis, Pholeoixodes (see Ixodes rugicollis) Runchomyia, taxonomy of 2764 Runde virus, in, Ixodoidea, in Norway 2965 rupestris, Aedes rupicolus, Anopheles rhodesiensis rupium, Tabanus rusticus, Aedes rutilus, Toxorhynchites Rwanda, onchocerciasis in 2452 Rypellia, in Thailand 1731 Sabethini, taxonomy of 2100

Saccharose (see α-D-Glucopyranoside, β-Dfructofuranosyl) Saccharum officinarum (see Sugar-cane) sacharovi, Anopheles sackeni, Symphoromyia saduski, Gahrliepia saffranea, Chrysomya sagittarius. Onthophagus St. Louis encephalitis (see Encephalitis, Saint Louis) St. Lucia, Periplaneta americana in, natural enemies of 3003 Sakhalin virus Ixodes spp. 2966 Ixodidae, in USSR sakishmaense, Simulium salazarae, Lucilia salinarius, Culex salinarius, Culicoides Salithion (see 4H-1,3,2-Benzodioxaphosphorin, 2-methoxy-, 2-Salix, Tabanidae on, in Connecticut 387 Salix candida, Aedes punctor associated with, in Quebec 512 Salix pellita, Aedes punctor associated with, in Quebec 512 Salmonella in Argas persicus, in Pakistan 19 Blattaria, transmission of 969 Blattella germanica, on ocean-going ships 55 Dermacentor marginatus, persistence of 2626 D. pictus, persistence of 2626 Rhipicephalus rossicus, persistence of 2626 Salmonella typhimurium in, Blatta orientalis, transmission of 482 toxaphene components in, mutagenicity of Salt marshes Aedes spp. in, in Quebec 512
A. cantator in, in Connecticut 1574 A. sollicitans in, in Connecticut 1574 A. sollicitans in, in Connecticut 15/ Ceratopogonidae in in California 2442 in Mexico 2442 Culicidae in, radar observations on Culicoides spp. in, in Ukraine 2807 C. furens in, in North Carolina 1350 C. hollensis in, in North Carolina 1358, Culiseta inornata in, in California 93 mosquito control in 2397 Bacillus thuringiensis for water management for 1874, 1875 Tabanidae in, in USA 2862 Saltatoria, control of, non-target effects of Saltella, in British Isles 2184 Salts in Phormia regina, receptors for 1157, in Tyrophagus putrescentiae diet, requirement for 2019 Salvia, acaricidal activity of extracts of 246 Salvia officinalis, repellent activity of extracts of 246 samarensis, Chrysomya Samia cynthia ricini, physiology of, Chinese research on 984 samoanus, Aedes sanchezi, Argas sanctipauli, Simulium sanguinaria, Lutzomyia sanguinea, Formica sanguineum, Simulium sanguineus, Allodermanyssus sanguineus, Rhipicephalus sanguinolenta, Haematobosca Santa Cruz Islands, Amblyomma cyprium in 2207 Santalus parallelus in Pakistan 210 preying on Haematobia irritans, and biological control using, in California 2
Musca autumnalis, and biological control using, in California 210

Sapphire virus II, in, Argas cooleyi 2974 sapphirina, Uranotaenia sapporoensis, Tabanus Sarcocystis, development in 255 Sarcophaga biology of 1141 control of, insecticides for 2494 cuticle in, hardening and coloration of in UK in fowl dung, in Kentucky 2494 Sarcophaga argyrostoma chromosomes in 1132 diapause in 2886 eclosion in, rhythm of 620 Leiurus quinquestriatus venom in, paralysis caused by 1222 photoperiodism in 1729, 2886 Risella 17 oil in, leg paralysis caused by toxins in, oral toxicity of 2988 venoms in, oral toxicity of 2988 Sarcophaga bullata cytochromes in 2508 cytochronics in 2506

Dolichovespula maculata venom in, toxicity of 2195

enzymes in 2508

flight muscles in, mitochondria in 613 methoprene in, not affecting parasites ovarian development in, hormonal regulation of 216 parasites of, effects of growth regulators on 2173 parasitised by, Nasonia vitripennis 1707, 2173 propoxur susceptibility in, relation of cytochromes and 2508 pulvilli in, volume changes in nuclei and nucleoli in 869 Sarcophaga crassipalpis (see also Parasarcophaga crassipalpis) diapause in, terminated by organic solvents 2191 Sarcophaga dux (see S. misera) Sarcophaga exuberans, diapause in 1693 Sarcophaga falculata (see S. argyrostoma) Sarcophaga haemorrhoidalis diapause in 1693
in South Africa 379
parasitised by, Tachinaephagus
zealandicus, in South Africa
Sarcophaga inzi, diapause in 1693 379 Sarcophaga lineaticolis fat-body in, developmental changes in hemolymph in, proteins in, developmental changes in 1717 Sarcophaga misera (see also Parasarcophaga misera) misera)
in Bangladesh 1963
parasitised by, Brachymeria podagrica, in
Bangladesh 1963
Sarcophaga monospila, diapause in 1693
Sarcophaga par, diapause in 1693
Sarcophaga peregrina (see Boettcherisca peregrina) Sarcophaga ruficornis (see also Parasarcophaga ruficornis) cannibalism in 1715 diapause in 1693 hemocytes in, mitosis in 1160 spiracles in, morphogenesis of water content in, developmental changes in 1133 Sarcophagidae adults of, larval fat-body persisting in chromosomes in 1132 communities of, in various habitats 907 in Afghanistan 2185 in Brazil 2856, 2890 in Crimea 221 in Ryukyu Islands in South Korea 378 in Soviet Far East 2 in Thailand 3143 in Uganda 3180 in cattle dung
effects on bacteria and fungi of 2989 in Australia 1681 in livestock farms, in Bulgaria 877 on sheep, in Australia 1138

| Sarcophagidae contd. traps for 629 | Sarotherodon galilaeum, preying on, Culex | Schistocerca gregaria contd. |
|---|--|---|
| Sarcophaginae, in Mongolia 1706 | pipiens 3067 Saskatchewan | neurophysiological techniques with 2258 Schistosomiasis, control of, vector control |
| Sarcoptes as reservoir of pathogens 974 | Aedes vexans in, viruses in 1089 Culex tarsalis in, viruses in 1089 | for 2414 Schizomycetes 468, 933, 1606, 1832, 2031, |
| control of 2044 | Culicidae in 152 | 2279, 2989, 3098 |
| acaricides for 1448 in dung 977 | Culiseta inornata in, viruses in 1089 Rhadinopsylla rauschi in, on Peromyscus | Acinetobacter calcoaceticus 2704 Aerobacter 1996 |
| on camel, in Mongolia 2044 | 1029 | Aeromonas hydrophila 2249 |
| on goat, in Zambia 2462 | Satellite surveys, for detecting potential | Bacillus 1996 |
| on pig, in Zambia 2462 Sarcoptes bovis auct. (see S. scabiei) | insect breeding sites 1315 Saturniidae, body temperature in, measuring | B. alvei 2769 B. brevis 2769 |
| Sarcoptes ovis (see S. scabiei) | of 1261 Saudi Arabia | B. popilliae 2277 B. sphaericus 136, 1087, 1088, 1569, |
| Sarcoptes scabiei biology of 59, 671, 1771 | Androctonus crassicauda in, on man | 1830, 2253, 3039 |
| control of 59, 2930 | 1234 Arcyophora longivalvis in, on camel | B. thuringiensis 159, 190, 192, 536, 551, 985, 1296, 1363, 1407, 1475, 1588, |
| acaricides for 270, 275, 940, 1457, 1789, 2012, 2921, 2926, 3017, 3214, | 1236 | 1589, 1590, 1591, 1604, 1665, 2029, |
| 3215, 3216, 3226 | leishmaniasis in 2134 medical entomology in 2990 | 2030, 2216, 2277, 2354, 2355, 2455, 2459, 2517, 2750, 2818, 2939, 3004, |
| descriptions of 1771 evolution of 1793 | Musca domestica in 1405 | 3036, 3037, 3066, 3241, 3242 |
| illustrations of 269 | natural enemies of 1235 Nycteribiidae in, on bat 394 | Bordetella bronchiseptica 460 Borrelia 411, 2615 |
| in Belgium 677 | Parabuthus liosoma in, on man 1234 | B. anserina 405, 3193 |
| in Canada 2921 in Czechoslovakia 1444 | Phlebotominae in 1662, 2134 Phlebotomus papatasi in 838 | B. caucasica 3199 Clostridium 1996 |
| in Denmark 3226 | Scorpiones in 1233 | Enterobacter cloacae 2704 |
| in Egypt 270 in India 419, 671, 2646 | Sergentomyia antennata in 838 synanthropic flies in 1237 | Erysipelothrix insidiosa 3196 Escherichia 1996 |
| in Italy 281, 969 | Tephrina disputaria in, on man 1236 | Flavobacterium 1996 |
| in Netherlands 275 in New Zealand 2930 | Savanna, Phlebotominae in, in Congo 2140 | Klebsiella 1996 K. pneumoniae 2704 |
| in Norway 3214, 3215, 3216 | savignyi, Ornithodoros | Listeria monocytogenes 1187 |
| in South Africa 3227 in Switzerland 1776 | Sawdust, diet component for, Stomoxys calcitrans 215 | Micrococcus pyogenes 2261 M. roseus 2704 |
| in Tokelau Islands 2930 | Saxitoxin, in Periplaneta americana, | M. varians 2704 |
| in UK 59 in USA 2248, 2654, 3218 | blocking of axonal sodium channels by 1514 | Moraxella 865 M. bovis 2513 |
| in West Germany 2012, 2926 in Zimbabwe 1457 | saxonica, Dolichovespula scabiei, Sarcoptes | Mycobacterium 738 Pasteurella 2467 |
| mate-finding in 475 | Scabies | P. multocida 2261 |
| on Asian buffalo, in Egypt 270 on camel, in Egypt 270 | cycles of 281 diagnosis of 1793 | P. tularensis 1150, 1433, 1792, 2219, 2224, 2261, 2621, 2905 |
| on cattle | epidemiology of 671, 1444 | Proteus 1996 |
| in Netherlands 275 in West Germany 2012 | review 1793 in Czechoslovakia 1444 | Pseudomonas 1996 P. aeruginosa 2249, 3067 |
| losses caused by 1771 | in India 671 | P. alcaligenes 2704 |
| on dog 1789 transfer to man of 2345 | nodular 281 Scabies, Norwegian, associated with Bloom's | Salmonella 55, 969, 1996, 2626 S. typhimurium 482, 693 |
| on domestic animals, in Haryana 2646 | syndrome 2654 | Serratia 1996 |
| on man antibodies to 677 | scabriceps, Aphodius Scaevola frutescens, Aedes polynesiensis | S. marcescens 1117 Sporosarcina 1996 |
| defence mechanisms against 475 | resting on, in French Polynesia 2785 | Staphylococcus 1996 |
| diagnosis of 2929 distribution pattern of 1457 | scalaris, Fannia scalaris, Megaselia | S. aureus 2249, 2704 S. epidermidis 2704 |
| eczema caused by 419 effects of 59 | Scaptomyza, Stigmatomyces scaptomyzae in, | S. saprophyticus 2704 Streptococcus 865, 1996 |
| etiology of 3213 | in Italy 1960 scapularis, Aedes | S. faecalis 2163, 2704 |
| in Czechoslovakia 1444 in Denmark 3226 | scapularis, Ixodes Scarabaeidae | Vibrio 1996 Yersinia enterocolitica 766 |
| in India 671 | dung-burying behaviour in 1970 | Y. pestis 331, 474, 498, 980, 1027, 1030, |
| in Italy 969 in Minnesota 2654 | in Georgia (USA) 244, 1740 in African elephant dung, in Kenya 1970 | 2353, 3027 Schoenbaueria pusilla (see Eusimulium |
| in New Zealand 2930 | in carrion, in USA 452 | pusillum) |
| in Norway 3214, 3215, 3216 in Ohio 3218 | in cattle dung in Spain 1968 | Schoengastia habitats of 1772 |
| in Ontario 2921 | role in fly control of 2315 | in New Guinea 3221 |
| in South Africa 3227 in Tokelau Islands 2930 | communities of 3183 | on mammals, in Papua New Guinea 1772 |
| pathogenesis of 281 | in Bangladesh 2192 | Schoengastia plumosa |
| prurigo caused by 2345 skin eruptions caused by 2010 | in Egypt 2156 in horse dung, in Queensland 911 | sp. nov., description of 3221 in Papua New Guinea 3221 |
| symptoms of 1793 | Paradoxiphis spp. on, in Australia 2893 | on Rattus niobe, in Papua New Guinea |
| on pig in Idaho 2248 | traps for 1813 Scathophaga stercoraria | 3221 Schoengastia roselli |
| in Montana 2248 in North Dakota 2248 | in cattle dung, intraspecific competition in 1695 | sp. nov., description of 3221 in Papua New Guinea 3221 |
| in Washington 2248 | mating in 1155 | on Rattus ruber, in Papua New Guinea |
| in West Germany 2926 on sheep, in Switzerland 1776 | Scatopsidae, in livestock farms, in Bulgaria 877 | 3221 Schoengastia tricoxalae |
| seasonal abundance of 1444 | Scheelea zonensis, Rhodnius pallescens in, | sp. nov., description of 3221 |
| strains of 1793 Sarcoptes scabiei bubulus (see S. scabiei) | in Panama 3024 Scheloribates laevigatus, Anoplocephalidae | in Papua New Guinea 3221 on Rattus niobe, in Papua New Guinea |
| Sarcoptes scabiei cameli (see S. scabiei) | in, development of 2011 | 3221 |
| Sarcoptes scabiei canis (see S. scabiei) Sarcoptes scabiei hominis (see S. scabiei) | Schistocerca gregaria air resistance of 731 | Schoengastiella ligula habitats of 930 |
| Sarcoptes suis (see S. scabiei) | gut cuticle in, permeability of 2700 | in India 930 |
| Sarcoptiformes in Norway 2205 | hemolymph in, amino acids in 619 immunity in 2306 | on small mammals, in Maharashtra 930 seasonal abundance of 930 |
| on bats, in Poland 2641 | juvenile hormones in, identifying of 2 | Schools |
| on small mammals, in Poland 1497 Sarotherodon auraeum, preying on, Culex | Moniliformis dubius in, defence mechanisms against, overcoming of | Aedes aegypti in, in West Malaysia 3034 A. albopictus in, in West Malaysia 3034 |
| pipiens 3067 | 1266 | schultzei, Culicoides |

224

serotinus, Acanthophthirius Sepiapterin, in Lucilia cuprina, relation of Sciaridae, Entomophthora culicis in, in Serotonin (see 1H-Indol-5-ol, 3-(2eye colour mutants and 2493 Israel 400 scimitra, Buenoa sepikensis, Ascoschoengastia aminoethyl)-) serrata, Polyplax Sciomyzidae, in Spain 392 Sepsidae in Australia 3158 Scirpophaga incertulas, biology of 986 Serratia, in, Argas persicus, in Pakistan sciuricola. Aplodontopus in British Isles 2184 1996 Sciuridae in livestock farms, in Bulgaria 877 Serratia marcescens Rhodnius pallescens on, in Panama 3024 Sepsis, in British Isles 2184 in Tamiopsochirus laosensis on, in Laos Sepsis cynipsea Glossina morsitans, pathogenicity of in France 1697 280 in cattle dung, in France 1697 septentrionalis, Acanthophthirius luzonensis septentrionalis, Boettcherisca septentrionalis, Toxorhynchites rutilus G. pallidipes, pathogenicity of 1117 Sciurochirus, taxonomy of 280 serratus, Aedes Sciurochirus thailandiae serrulatus, Eucyclops (see E. agilis) sp. nov., description of 280 serrulatus, Eucyclops (see E. agiiis)
serrulatus, Tityus
Sesamex (5-[1-[2-(2-ethoxyethoxy)ethoxy]ethoxy]-1,3-benzodioxole)
synergist for
DDT analogues 1562
diflubenzuron 903 in Thailand 280 Septic tanks on Callosciurus caniceps, in Thailand Culicidae in, in Djibouti 1075
mosquito control in 1075
sergenti, Phlebotomus
sergentii, Anopheles
Sergentomyia 280 Sciuropsis sibirica sp. nov., description of 2247 in Mongolia 2247 Setaria labiatopapillosa, in, Aedes caspius, on Allactaga sibirica, in Mongolia 2247 in Uzbekistan dispersal of, barriers to 557 sciurorum, Ceratophyllus (Monopsyllus) sciurorum, Monopsyllus (see Ceratophyllus in Algeria 3114 in Tunisia 2446 Setaria viridis, Aethus indicus associated with, in Amami Islands 709 sciurorum) in forests, in Congo 2140, 2141 setosa, Euschoengastia setosa, Neopsylla Sciurotamias forresti, Herpetacarus Sergentomyia antennata control of, insecticides for 838
in Saudi Arabia 838
Sergentomyia arpaklensis (see S. dentata)
Sergentomyia babu, in India 2816
Sergentomyia baghdadis, in Iraq 3110 hastoclavus on, in Yunnan 2913
Sciurus vulgaris, Neotrombicula talmiensis
on, in China 2638
scleritus, Geomydoecus setosus, Eutrichophilus setosus, Linognathus Sevin (see Carbaryl) Sewage systems Aedes spp. in, in Sabah 3169 Culicidae in, utilisation of 3067 fly control in 2180 Sclerodermus domesticus in Italy 969 on man, hypersensitivity to 969 Sergentomyia bailyi in China 1103 in India 2815, 2816 scobina, Palaeopsylla Sex pheromones Scoliidae, in Nansei Islands 712 Sergentomyia bergerardi Amblyomma hebraeum 656 Scolopax rusticola, Ixodes ricinus on, in West Germany 2218 Scolopender (see Chilopoda) sp. nov., descriptions of 2141 A. maculatum 2578 in Congo 2141 Sergentomyia clydei Culicoides nubeculosus Dermacentor andersoni 2578 D. variabilis 2578 distribution of 3116 habitats of 3116 in Afghanistan 837 in India 2815 in USSR 556 Scolytidae, preyed on by, Holcocephala fusca, in Virginia 1553 scopulorum, Ceratophyllus D. variabilis 2578
Musca domestica 1144, 1149, 3147
Nauphoeta cinerea 2604
Periplaneta americana 483, 1522
Rhipicephalus appendiculatus 2578
R. sanguineus 2578
Stomoxys calcitrans 593
insect control using 470 Scorpio maurus in Iran 2932 venom of 2932 Leishmania spp. in, in Afghanistan L. tropica in, in Turkmenia 556 Scorpiones in Nansei Islands 721
in Saudi Arabia 1233, 2990
in South Africa 996
in South-West Africa 2933
in Turkmenia 2935
in Venezuela 687
venoms of 1257 Sergentomyia dentata in Iraq 3110
in USSR 556

Leishmania spp. in, in Turkmenia 556

Sergentomyia drakensbergi
sp. nov., description of 3113 role of isopentenoids in chemistry of 1474 sexfasciata, Hybomitra sexta, Manduca Seychelles, Pediculus capitis in, on man 3019 on Procavia capensis, in southern Africa Scorpionidae, in Saudi Arabia 1233 scotophili, Acanthophthirius shannoni, Lutzomyia Shannonia, taxonomy of 2764 Shawella couloniana 3113 Sergentomyia dreyfussi, in Yemen 12: Sergentomyia fallax, in Yemen 12:38 Sergentomyia fallax cypriotica, in Iraq 3110 Scotophilus kuhlii Acanthophthirius scotophili on, in agonism in 748 in Australia 748 Thailand 1773 Pteracarus pusillus on, in Thailand 1773 Sergentomyia grekovi in USSR 556 Sheep (Ovis aries) scrobiculata, Guntheria Anaplasma mesaeterum in, in Netherlands Scrub typhus (see also Rickettsia Leishmania spp. in, in Turkmenia 556 tsutsugamushi)
epidemics of, forecasting of 2919
scutatus, Ichoronyssus Sergentomyia hospitii, in India 2816 Sergentomyia iyengari, in China 1103 arthropod pests of, in Nigeria 2045, 2046 blood-sucking flies on, feeding on ears of Sergentomyia kalaharia 1661 scutatus, Ichoronyssus scutatus, Macrocheles scutellare, Leptotrombidium (Trombicula) scutellaris, Aedes scutellaris, Trombicula (see sp. nov., description of 3113 on Xerus inauris, in southern Africa 3113 bluetongue virus in 123 in Cyprus 359 infectivity of 358 Calliphoridae on Sergentomyia lesleyae descriptions of 3116 distribution of 3116 habitats of 3116 Leptotrombidium scutellare) in New South Wales 2506 SD-14114 (see Fenbutatin oxide) in Queensland 227 Caloglyphus berlesei on, effects of cantharidin in, detecting of 910 Sea birds Ixodes uriae on, in USSR 2963 Ixodoidea on, viruses in 2966 Sergentomyia minuta deformities in 1485 Chorioptes bovis on Sea gull, Chrysomya megacephala in carcasses of, in South Africa 614

Sebacil (see Phoxim)

Sectrol (see Pyrethrins)

Seducin, in Nauphoeta cinerea 1518, 2604, in New Zealand 599 in Switzerland 1776 in Italy 835 in Spain 1485 nn Spann 1485
Sergentomyia namibensis, on Xerus
princeps, in southern Africa 3113
Sergentomyia palestinensis, in Iraq 3110
Sergentomyia punjabensis, in India 2815
Sergentomyia sintoni
in Afrikanistan 227 Cochliomyia hominivorax on, in Mexico 900, 2523 Cowdria ruminantium in, in Zimbabwe 2004 segmentaria, Hemilucilia Coxiella burneti in, in West Germany segnis, Leptopsylla sejfadinei, Culicoides 2571 in Afghanistan 837 Leishmania spp. in, in Afghanistan 837 Culicoides spp. on in Cyprus 359 in Nigeria 3106 semifasciatus, Neohaematopinus Sergentomyia sogdiana, in Afghanistan 837 Sergentomyia squamipleuris, in China 1103 Semliki Forest virus, in, Culex annulirostris, interference between strains of 539 Damalinia ovis on, in New Zealand Sergentomyia squamipleuris indica, in India semura, Frontopsylla Demodex ovis on, lesions caused by Senegal 2815 1776 Aedes spp. in 1052, 1053 viruses in 166, 347, 2780 Phlebotominae in 3116 yellow fever in 3080 Sergentomyia xera sp. nov., description of 3113 Dermacentor spp. on, in USSR 2911 D. marginatus on in Armenia 2000 in West Germany 2571 dinobuton in, toxicity of 3251 on Xerus inauris, in southern Africa separata, Leucania (see Mythimna separata) Sergentomyia zeylanica, in India 2816 sericata, Lucilia (Phaenicia) separata, Mythimna (Leucania) Diptera on sericata, Phaenicia (see Lucilia sericata) Sepedon sphegeus, rearing of, techniques for in Romania 2529

Serinus canarius (see Canary)

in UK 2278

| Sheep contd. | Sierra Leone, Glossina longipalpis in 1379 | Simulium contd. |
|--|---|---|
| Diptera on contd. in Western Australia 1138 | sierrensis, Aedes sigaensis, Culicoides (see C. maculatus) | in Cameroon 1074 in Ivory Coast 366 |
| fly control on 893, 896, 897, 2278, 2529 | Sigmodon hispidus | in Maritime Provinces 1111 |
| avermectins for 2175 | Culex opisthopus on, in Florida 1308 | in Nansei Islands 714 |
| insect growth regulators for 2506 | Litomosoides carinii in, mite transmission | in Nigeria 2824 |
| insecticides for 607, 3164 jowling for 227 | of 2405 Rhipicephalus sanguineus on, in | in Queensland 845 in streams |
| mulesing for 38, 227 | Mississippi 2623 | effects on organic transport of 1930 |
| pizzle dropping for 227 | signatipennis, Tabanus | in Costa Rica 3118 |
| Haemaphysalis aponommoides on, in Nepal 1993 | signatus, Ixodes sikae, Lipoptena | labro-cibarial sensilla and armature in 187 |
| Haematobia irritans on, role in vulvitis of | Sikhote-Alin virus | larval development in, effects of |
| 3172 | characterization of 2586 | temperature on 560 |
| Hyalomma impressum on, feeding by 647 | in, Ixodes persulcatus, in Maritime Territory 2586 | Microsporidia in, effects of temperature |
| Ixodes acutitarsus on, in Nepal 1993 | silesiacus, Acanthophthirius | on development of 560 on man, in Brazil 1338 |
| Ixodidae on | Silicate | predators of, effects of insecticides on |
| in Mongolia 2044 in Punjab 268 | in Simulium nyasalandicum breeding water 843 | 1114 preyed on by |
| in Yugoslavia 2217 | in Simulium woodi breeding water 843 | Drosophila spp. 474 |
| Ixodoidea on, in UK 2278 | Silphidae, traps for 1813 | Holcocephala fusca, in Virginia 1553 |
| Leptocera vagans on 19 louse control on 38 | silvarum, Dermacentor silvaticus, Eulaelaps | Simulium aokii in Japan 851 |
| Lucilia cuprina on | silvestris, Culiseta | Mermithidae in, in Hokkaido 851 |
| antibodies to 2882 | silvestris, Eretmapodites | Simulium arakawae |
| assessing susceptibility to 3166 effects of fleece moisture on 1938 | similis, Euproctis similis, Oxybelus | emergence in 852 in Japan 852 |
| in New South Wales 893, 895, 896, | simillimum, Tetramorium | Simulium argus |
| 897 | Simmondsia chinensis (see Jojoba) | control of, growth regulators for 191 |
| in Western Australia 38 Melophagus ovinus on, in New Zealand | Simocephalus vetulus, preying on, Romanomermis culicivorax 106 | in USA 191 Simulium argyreatum |
| 599 | simplex, Acanthophthirius | coprophagy in 3125 |
| mite control on | simplex, Cediopsylla | in Finland 3125 |
| acaricides for 2239 dips for 284 | simpsoni, Aedes simulans, Pulex | in West Germany 2146 |
| mites on, in Haryana 2646 | simulator, Culicoides | in running water, sampling of 2146 Simulium aureohirtum |
| Oestrus ovis on | Simuliidae | descriptions of 840 |
| assessing infestations of 576 in Mongolia 2044 | control of aerial sprays for 4 | distribution of 840 habitats of 840 |
| in USSR 2471 | biological 2030, 2354 | in Taiwan 840 |
| Otobius megnini on, development of | for onchocerciasis control 2147 | Simulium aureum (see Eusimulium aureum) |
| 1764 pest control on 2044, 3016 | insecticide formulations for 848 insecticides for 1929 | Simulium bidentatum emergence in 852 |
| review 2296 | non-target effects of 302 | in Japan 852, 1367 |
| Psoroptes ovis on | filter-feeding in 2300 | Mermithidae in, in Kyushu 1367 |
| effects of 283 exchange with cattle of 2658 | Finnish entomologists working on 2727 food of 189 | Simulium bivittatum control of, growth regulators for 191 |
| in Argentina 284 | identifying of, review 858 | in USA 191 |
| in Denmark 2653 | in Cameroon 2729 | Simulium callidum |
| in Lesotho 272 in New Mexico 2555 | in Comoro Islands 2690 in Denmark 1931 | abdominal hairs in 2823 in Guatemala 2823 |
| in West Germany 1770 | in eastern Africa 1362 | Simulium congareenarum |
| Raillietia auris on, distribution pattern of | in Iran 855 | in USA 365, 1927 |
| 2230 Rift Valley fever, virus in, in Egypt 2362 | in Ivory Coast 366 in Maine 853, 1552 | Leucocytozoon smithi in, transmission of 1927 |
| Sarcoptes scabiei on, in Switzerland 1776 | in Maritime Provinces 1111 | on turkeys, in Florida 365 |
| Siphonaptera on, in Mongolia 2044 | in North America 78 | traps for 365 Simulium damnosum |
| Theileria ovis in, tick transmission of 3188 | in Poland 844 in Soviet Far East 24, 193 | breeding places of, effects of dams on |
| tick control on, dips for 254 | in Taiwan 840 | 1074 |
| Triatoma barberi on, in Mexico 3023 | in USSR 9 | control of |
| Trypanosoma spp. in, in Kenya 860 Vetrazin in, toxicity of 3165 | in Uzbekistan 3028 in West Germany 1366 | biological 192, 2455 for onchocerciasis control 3127 |
| Sheep, Barbary (see Ammotragus lervia) | in Yemen 1362 | insecticides for 1109, 1928, 2453 |
| Sheep dung Leptocera vagans in 19 | in dung, in Netherlands 2503 in rivers | non-target effects of 1928, 3117 |
| nematodes in, predation of 19 | in Spain 1499 | dams as affecting 2729 development in 2143 |
| Sheepskin, pest control in, insecticides for | sampling of 1819 | in Burundi 854 |
| 909 Shikonin (see 1,4-Naphthalenedione, 5,8- | in running water, sampling of 2146 in streams, sampling of 3118 | in Cameroon 1074, 2729 in Ghana 1928 |
| dihydroxy-2-(1-hydroxy-4-methyl-3- | on cattle, in France 1929 | on man |
| pentenyl)-) | on game, book 2261 | in Burundi 854 |
| Shikonin angelate (see 2-Butenoic acid, 2-methyl-, 1-(1,4-dihydro-5,8-dihydroxy- | on man effects of 992 | in Cameroon 1074 in Volta River Basin 1110 |
| 1,4-dioxo-2-naphthalenyl)-4-methyl-3- | evaluating attack by 361 | Onchocerca volvulus in |
| pentenyl ester) | hypersensitivity to 969 | in Volta River Basin 1110 |
| Ships, Blattella germanica in, bacteria in 55 | in Indiana 1259 on mule, in France 1929 | in West Africa 2453 transmission of 1109, 1264 |
| Shock | Onchocerca spp. in, in Uzbekistan 77 | reinvasion by 1110 |
| in horse, caused by Epicauta 402 | oviposition intensity in, measuring of | Romanomermis culicivorax in, |
| in man, caused by Culicidae 546 Shops | 939 predators of, detecting of 1373 | pathogenicity of 1370 complex of |
| Aedes aegypti in, in West Malaysia 3034 | preyed on by, Dugesia tigrina 2382 | age determination of field-collected |
| A. albopictus in, in West Malaysia 3034 | traps for 552 | females of 3122 |
| shorttii, Sergentomyia Shrimp, Bacillus thuringiensis in, not | Simulium bioenergetics of 1930 | biology of 2452 control of, biological 1363, 1665, 2459 |
| pathogenic 551 | Coelomycidium simulii in, in Kazakhstan | 2818 |
| Shunsennia hertigi (see Chatia hertigi) | 2454 control of 736 | development in 2143 gut in, rate of passage of food through |
| sibirica, Amphipsylla sibirica, Sciuropsis | growth regulators for 2821 | 559 |
| sibiricus, Atylotus plebeius Sicarius, on man, effects of bite by 996 | insecticides for 1114 | identifying of, review 858 |
| CHERTIES, OR HIGH, CHECKS OF DIE DV 995 | non-target effects of 968 | in Ivory Coast 2143 |

| Simulium damnosum contd. | Simulium morsitans contd. | Simulium sakishmaense contd. |
|---|---|---|
| complex of contd. | Microsporidia in, effects of temperature | in Taiwan 840 |
| in Nigeria 562 | on development of 560 | taxonomy of 840 |
| on cattle, in Togo 2144 | Simulium neavei | Simulium sanctipauli |
| on man, in West Africa 2458 | group of 858 | development in 2143 |
| Onchocerca spp. in, in Togo 2144 | biology of 2452 | Onchocerca ochengi in, development of |
| O. ochengi in, development of 846 | Simulium nicholsoni | 846 |
| O. volvulus in | habitats of 845 | O. volvulus in, development of 846 |
| in Congo 842 | in Australia 561, 845 | Simulium sanguineum, Onchocerca volvulus |
| transmission of 2458 | swarming in 561 Simulium nigritarsis | in, uptake from man of 856 |
| rearing of, techniques for 2148 | in South Africa 1364 | Simulium sirbanum |
| Simulium decorum | Leucocytozoon smithi in, transmission of | control of, insecticides for 2453 |
| egg-masses of 1361 | 1364 | development in 2143 |
| eggs of 1361 | on turkeys, in South Africa 1364 | on man, in Volta River Basin 1110 Onchocerca volvulus in |
| in Canada 2456 | Simulium nyasalandicum | in Volta River Basin 1110 |
| oviposition in 1361 Simulium downsi | breeding places of 843 | in West Africa 2453 |
| | in Tanzania 843 | reinvasion by 1110 |
| abdominal hairs in 2823 in Guatemala 2823 | Simulium nyssa | Simulium slossonae |
| Simulium equinum | in USA 1819 | in USA 365, 1927 |
| biology of 1107 | in rivers, sampling of 1819 | Leucocytozoon smithi in |
| dispersal of 2460 | Simulium ochraceum | in Florida 365 |
| egg-masses of 2817 | abdominal hairs in 2823 in Guatemala 15, 2823 | transmission of 1927 |
| fecundity in 2817 | Onchocerca volvulus in, development of | on turkeys, in Florida 365 |
| flight activity in 2460 | 15, 364 | traps for 365 |
| host location by 1107 | Simulium ornatipes | Simulium soubrense, development in 2143 |
| in East Germany 1107 | chromosome polymorphism in 3120, | Simulium spinosum |
| in UK 2460, 2817 | 3121 | in Czechoslovakia 3126 |
| in West Germany 1366, 3123 | chromosomes in 563, 564 | population age-structure in 3126 |
| in chalk streams, in England 2817 | habitats of 845 | Simulium squamosum |
| oviposition sites of 2817 | in Australia 561, 563, 564, 845, 3120, | in Ghana 841 |
| Simulium erythrocephalum | 3121 | traps for 841 |
| in East Germany 1106 | in Norfolk Island 564 | Simulium subcostatum |
| in West Germany 1366, 2146, 3123 | mating in 561 | biology of 24 |
| in running water, sampling of 2146 | resting places of 561 | descriptions of 24 in USSR 24 |
| on cattle | sibling species in 3120, 3121 swarming in 561 | Simulium sublacustre |
| in West Germany 3123 pathology of 1106 | Simulium ornatum | in West Germany 2146 |
| seasonal abundance of 3123 | biology of 1107 | in running water, sampling of 2146 |
| Simulium fulvinotum | egg-masses of 2817 | Simulium suzukii |
| in Brazil 1373 | fecundity in 2817 | distribution of 840 |
| predators of, in Brazil 1373 | flight activity in 2460 | habitats of 840 |
| Simulium jacumbae | host location by 1107 | in Taiwan 840 |
| abdominal hairs in 2823 | in Czechoslovakia 3126 | taxonomy of 840 |
| in Guatemala 2823 | in East Germany 1107 | Simulium tescorum |
| Simulium japonicum | in France 1929 | control of, growth regulators for 191 |
| biology of 24 | in UK 2460, 2817 | in USA 191 |
| descriptions of 24 in Japan 850, 1367 | in USSR 1105 | Simulium tobetsuense in Japan 851 |
| in USSR 24 | in West Germany 1366, 2146, 3123, 3157 | Mermithidae in, in Hokkaido 851 |
| Mermithidae in, in Kyushu 1367 | in chalk streams, in England 2817 | Simulium truncatum |
| Mesomermis japonicus in, in Japan 850 | in running water, sampling of 2146 | coprophagy in 3125 |
| Simulium konoi | on cattle | in Finland 3125 |
| biology of 24 | in France 1929 | in Sweden 1664 |
| descriptions of 24 | in West Germany 3123, 3157 | in lake outlets, drift and colonisation by |
| in USSR 24 | Onchocerca gutturosa in, development of | 1664 |
| Simulium lineatum | 849 | Simulium tuberosum |
| biology of 1107 | O. volvulus in, development of 849, 1369 | in Canada 2456 |
| host location by 1107 in East Germany 1107 | oviposition sites of 2817 peritrophic membrane in 1328 | in USA 2819 |
| in West Germany 3123 | population age-structure in 3126 | Mesomermis camdenensis in, in New York 2819 |
| on cattle, in West Germany 3123 | seasonal abundance of 3123 | Simulium underhilli, oocytes in, relation of |
| Onchocerca volvulus in, development of | Thelohania fibrata in, in USSR 1105 | blood-meal size and maturation of 362 |
| 1369 | Simulium penobscotensis | Simulium venustum |
| seasonal abundance of 3123 | biology of 2457 | biology of 2456 |
| Simulium longistylatum | in USA 1819, 2457 | control of |
| egg-masses of 1361 | in rivers, sampling of 1819 | growth regulators for 1666, 2821 |
| eggs of 1361 | Simulium quinquestriatum | insecticides for 2456 |
| Simulium metallicum | descriptions of 840 | repellents for 1365 |
| abdominal hairs in 2823 | distribution of 840 habitats of 840 | diflubenzuron in, detachment caused by |
| in Guatemala 15, 2822, 2823 Isomermis benevolus in, in Guatemala | in Taiwan 840 | feeding behaviour in, stimuli for 1667 |
| 2822 | Simulium reptans | in Canada 1666, 2456 |
| Onchocerca volvulus in, development of | dispersal of 2460 | in USA 1365 |
| 15, 364 | flight activity in 2460 | lipids in, and in Mermithid parasites |
| Simulium metatarsale | in UK 2460 | 2820 |
| descriptions of 840 | in West Germany 3123 | Mesomermis camdenensis in, infectivity of |
| distribution of 840 | Simulium rubicundulum | 2819 |
| habitats of 840 | abdominal hairs in 2823 | on man, in Quebec 2456 |
| in Taiwan 840 | in Guatemala 2823 | Romanomermis culicivorax in, |
| Simulium mexicanum | Simulium rufibasis | pathogenicity of 1370 |
| adults of, maintaining of 1368 | distribution of 840 | complex of, colour preferences in 3119 |
| in Colombia 1368 | habitats of 840 | Simulium verecundum |
| on cattle, in Colombia 1368 on horse, in Colombia 1368 | in Taiwan 840 taxonomy of 840 | control of biological 2455 |
| Simulium morsitans | Simulium rugglesi | growth regulators for 2821 |
| chromosomes in 1112 | in USA 1927 | egg-masses of 1361 |
| in USSR 1112 | Leucocytozoon simondi in, transmission of | eggs of 1361 |
| in West Germany 1366, 2146 | 1927 | embryonic development in 1361 |
| in running water, sampling of 2146 | Simulium sakishmaense | in Canada 2456 |
| larval development in, effects of | distribution of 840 | mid-gut in, pH in 848 |
| temperature on 560 | habitats of 840 | oviposition in 1361 |

of

| Simulium verecundum contd. | Siphonaptera contd. | Snail contd. |
|---|--|--|
| Romanomermis culicivorax in, | on man | natural enemies of, book 2037 |
| pathogenicity of 2825 | in Northern Ireland 768 | preyed on by |
| complex of, colour preferences in 3119 | prurigo caused by 2345 | Hemiptera 1567 |
| Simulium vernum (see Eusimulium vernum) | pruritus caused by 1544 | Neolimnia spp. 1951 |
| Simulium vittatum | on mouse-like rodents, in Byelorussia | Sepedon sphegeus 224 |
| Bacillus thuringiensis in, pathogenicity of | 639 | Snail shells |
| 190 | on pig, in Northern Ireland 768 | Culicidae in, in Nigeria 3045 |
| breeding places of 1113 | on Rhombomys opimus, geographical | Eretmapodites spp. in, in Kenya 3058 |
| control of, growth regulators for 191, 2821 | distribution of 1025 | Snares Island, Siphonaptera in 769 |
| egg-masses of 1361 | on rodents, ecological regulation of 2713 on sheep, in Mongolia 2044 | Sneezing, in man, caused by Grylloidea |
| eggs of 1361 | on small mammals | 2896 |
| embryonic development in 1361 | in Bulgaria 1287 | Snowbell, cork leaf (see Styrax suberifolia) Snowshoe hare virus |
| feeding rates in 847 | in Poland 1284, 1498 | in |
| in Canada 1113 | in Spain 329 | Aedes communis |
| in USA 191, 363 | in USSR 2083 | in Arctic Canada 808 |
| in streams, distribution pattern of 1113 | on Sorex, in Maritime Territory 2040 | in Manitoba 795 |
| larvae of, distinguishing instars of 363 | on Synaptomys cooperi, in Indiana 1424 | Culicidae, transovarial transmission of |
| mid-gut in, pH in 848 | on Talpidae, in USA 1814 | 2969 |
| oviposition in 1361 Romanomermis culicivorax in | on <i>Vulpes fulva</i> , dermatitis caused by 2712 | Culiseta inornata, in Arctic Canada |
| not infective 1047, 1891 | population dynamics of, studying of | 808 |
| pathogenicity of 2825 | 1022 | Society Islands, Culicoides belkini in 1097, |
| Simulium woodi | vertebrate associations of, evolution of | 1098 |
| breeding places of 843 | 2294 | Sodium |
| in Tanzania 843 | Siphunculina, collecting of, review 231 | ion (Na ¹⁺) |
| simus, Rhipicephalus | SIR-6874 (see Benzamide, 2-chloro-N-[[[3,5- | in Periplaneta americana |
| Sindbis virus | dichloro-4-(4-nitrophenoxy)phenyl]amin- | effects of <i>Condilactis</i> toxin on axonal |
| Aedes albopictus, cytopathic effects of | o]carbonyl]-) SIR-8514 (see Benzamide, 2-chloro-N-[[[4- | transport of 1515 saxitoxin blocking axonal transport of |
| 2978 | (trifluoromethoxy)phenyl]amino]carb- | 1514 |
| Culex univittatus, transmission of | onyl]-) | in Periplaneta americana nervous |
| 1575 | sirbanum, Simulium | system, effects of toxaphene on |
| man, in Central African Republic | Sisyphus spinipes, in New Caledonia, | movement of 3000 |
| 3047 | introductions of 2375 | in <i>Phormia regina</i> , effects on sugar |
| pigeon, in South Africa 1575 | Siteroptes athiasae | receptors of 2847 |
| sinensis, Anopheles | in USA 1407 in insect rearing media, in Texas 1407 | in rat diet, effects on ticks of 410 Sodium chloride |
| Singapore Aedes aegypti in 1063 | Siteroptes mesembrinae | in Aedes fluviatilis rearing water, effects |
| Anopheles spp. in 2755 | in USA (Hawaii) 1407 | of 3055 |
| Chrysomya chani in 1732 | in insect rearing media, in Hawaii 1407 | in Aedes triseriatus |
| malaria in 2755 | sitiens, Culex | effects on larval development of 160 |
| sinica, Latoia (Parasa) | Sitodiplosis mosellana, biology of 986 | effects on oviposition of 160 |
| sinica, Parasa (see Latoia sinica) | Sitophilus granarius | Sodium cromoglicate (see Cromoglicic acid) |
| sinicus, Steatonyssus | control of, insecticides for 1806 | Sodium fluoride, antifeedant for, Aedes |
| Sinolaelaps typhlomydis gen. et sp. nov., description of 2639 | insecticide susceptibility in, effects of temperature on 1806 | aegypti, on guinea-pig 1655 Sogatella furcifera, migration in 986 |
| in China 2639 | Sitta europaea, Ixodes ricinus on, in West | sogdiana, Sergentomyia |
| on Typhlomys cinereus, in China 2639 | Germany 2218 | Soil |
| sintoni, Sergentomyia | Skeeter Doom (see Romanomermis | Bacillus sphaericus in, detecting of 136 |
| Sintonius, taxonomy of 3113 | culicivorax) | mosquito eggs in, separating of 156 |
| Siolimyia amazonica | Skin diseases, in cat, caused by Walchia | pyrethroids in, degradation of 1466 |
| distribution of 603 | americana 2024 | Soldado virus (see Potato) |
| in USA 603 mating in 603 | Skin tests for diagnosing hypersensitivity to house- | in |
| Siphona stimulans (see Haematobosca | dust mites 2234, 2237 | Ixodoidea, in Texas 2622 |
| stimulans) | for diagnosing hypersensitivity to | Ornithodoros capensis 2974 |
| Siphonaptera | Hymenoptera 2035 | O. maritimus 2974 |
| book 2994 | for diagnosing hypersensitivity to | in Wales 2592 |
| in Alaska 770 | Hymenoptera stings 3182, 3185 | Solenopotes capillatus |
| in China 1035 | for diagnosing hypersensitivity to | in Poland 758 |
| in Italy 987 in Malagasy Republic 2692 | Hymenoptera venoms 2198 | on cattle, role in skin mycosis of 758 |
| in New Jersey 28 | for diagnosing hypersensitivity to stinging insects 2201 | Solenopsis, preying on, Bembix multipicta, in Costa Rica 2496 |
| in New Zealand 769 | skrjabini, Xenopsylla | Solenopsis geminata |
| in Nova Scotia 1816 | Skunk, striped (see Mephitis mephitis) | elemental composition of 1171 |
| in Saudi Arabia 2990 | Slaughter houses (see Abattoirs) | glycogen in, reserves of 2536 |
| in Tuva ASSR 1038 | Sleeping sickness (see also Trypanosoma | in Canada 2204 |
| in bat guano, in New Hampshire 1820 | brucei) | in Mexico 1990 |
| in livestock housing, in France 2538 in <i>Microtus arvalis</i> nests, in Armenia | control of, vector control for 2829 human settlement density as affecting | in hothouses, in Manitoba 2204 preying on, Boophilus microplus, in |
| 1546 | 3134 | Mexico 1990 |
| on Apodemus agrarius, in Soviet Far East | in Congo 1932 | venom of 1419 |
| 1744 | slossonae, Simulium | Solenopsis invicta |
| on bats, in Poland 2642 | Sloth, Rhodnius pallescens on, in Panama | control of |
| on carnivores, in USA 1028 | Canal Zone 21 | baits for 1969 |
| on cat | Sloth, three-toed (see Bradypus griseus) | insecticides for 299, 1969 elemental composition of 1171 |
| in Northern Ireland 768 transfer to man of 2345 | Sloth, two-toed (see Choloepus hoffmanni) Slug | enzymes in 1419 |
| on Cricetomys gambianus, in Nigeria | control of, biological, book 2037 | in USA 240, 299 |
| 3212 | natural enemies of, book 2037 | marking of 1172 |
| on Cynomys, in USA 501 | smarma, Atelepalme | nuptial flights in 240 |
| on dog | Smicromyrme hageni | oocytes in, neuroendocrine regulation of |
| in Northern Ireland 768 | in Japan 712 | maturation of 635 |
| transfer to man of 2345 | on man, stings by 712 | venom of 1419 Solenonsis richteri |
| on domestic animals diagnosing of, book 977 | Sminthopsis leucopus, Rhodacantha tenax on, in Victoria 1216 | Solenopsis richteri elemental composition of 1171 |
| in Fiji 1262 | smirnovi, Leptotrombidium | venom of 1419 |
| on game, book 2261 | Smittia aterrima, wing-beat frequency of, | Solenopsis texana |
| on jerboa, in USSR 1031 | measuring of 772 | in Canada 2204 |
| on livestock, in Nigeria 2045, 2046 | Snail | in hothouses, in Manitoba 2204 |
| on mammals, in Czechoslovakia 1845 | control of, biological, book 2037 | Solenopsis xyloni, venom of 1419 |

South Australia Spalangia cameroni Solid waste in USA 3179 Diptera in, in California 207 medical entomology in 8 veterinary entomology in 8 parasitising fly control in 207 sollicitans, Aedes South Carolina Musca domestica Solomon Islands Culicoides hollensis in, on man 2440, and biological control using, in USA Amblyomma cyprium in 2207 2808 2868 Anopheles spp. in 2113 Psoroptes cuniculi in, on Odocoileus in North Carolina 3179 A. farauti in, natural enemies of 1653 virginianus 674 Spalangia drosophilae 3179 biological control in 2842 Simulium rugglesi in 1927 Spalangia endius Culex bougainvillensis in filariasis in 2113 Solenopsis invicta in 240 biology of 1735 South Dakota host destruction by Hypoderma lineatum in, on cattle 2479 in USA 3179 solum, Leptotrombidium Musca autumnalis in, on cattle 24 Phthiraptera in, on Cynomys 501 Solvents, for insecticides, toxicity to insects parasitising parasitising
Musca domestica 605, 1735
and biological control using
in North Carolina 3179
in USA 2868
in North Carolina 3179
Stomoxys calcitrans 1735
rearing of, techniques for 213 of 303 Somali Democratic Republic, onchocerciasis Siphonaptera in, on Cynomys 501 South Korea in 2452 Somalia, Hyalomma impressum in, viruses in 247 Aedes albopictus in, natural enemies of sonomensis, Hybomitra sonorensis, Dasyhelea Sophora alopecuroides, repellent activity of Anopheles sinensis in, natural enemies of Armigeres subalbatus in, natural enemies of 2357 reproduction in 605 extracts of 246 Spalangia nigra Blattella germanica in 2052 Calliphoridae in 378 sorbens, Musca sordes, Tabanus laetitinctus in USA 3179 parasitising, Musca domestica, in North Carolina 3179 sordida, Triatoma Culex pipiens in, natural enemies of 2357 sordida, Triatoma

Sorex caecutiens, ectoparasites of, in
Maritime Territory 2040

Sorex gracillimus, ectoparasites of, in
Maritime Territory 2040

Sorex isodon, ectoparasites of, in Maritime
Territory 2040 Spalangia nigroaenea in USA 3179 C. tritaeniorhynchus in 2431 Culicidae in 2100 parasitising Musca domestica Haemaphysalis longicornis in, on cattle and biological control using, in USA 2225 Muscidae in 378 Sorex merriami, Orycteroxenus merriami on, in Oregon 413 Sarcophagidae in 378
South-West Africa, Scorpiones in 2933
Sowbug (see Oniscoidea) in North Carolina 3179 Spalangia subpunctata Sorex minutissimus, ectoparasites of, in Maritime Territory 2040 in UK 1689 parasitising, Hydrotaea irritans, in England 1689 Soyabean (Glycine max) Sorex unguiculatus, ectoparasites of, in Maritime Territory 2040 trypsin inhibitor in 1955 Maritime Territory 2040
Soricidae, Pygmephorus spp. on, in North
America 2643 Soyabean oil, bait component for, Solenopsis invicta 1969 Spasm, in man, caused by Latrodectus mactans bite 289
Spermidine (see 1,4-Butanediamine, N-(3-Spain Spermidne (see 1,4-Butanediamine, N-(3-aminopropyl)-)
Spermine (see 1,4-Butanediamine, N,N'-bis(3-aminopropyl)-)
Spermodphilus beecheyi, Siphonaptera on, in soricis, Palaeopsylla Soriculopus nepalensis Aedes spp. in 1489
A. quasirusticus in, natural enemies of 1489 gen. et sp. nov., description of 3231 in Nepal 3231 Anopheles plumbeus in 1488 on Soriculus caudatus, in Nepal 3231 on Soriculus nigrescens, in Nepal 3231 Araeopsylla gestroi in, on Tadarida Archaeopsylla erinacei in, on small mammals 312 California 1283 Sphaeridium Soriculus caudatus, Soriculopus nepalensis on, in Nepal 3231 flight activity in 2892 Ceratopogonidae in, in tree holes in dung Damalinia alpina in, on Capra 1481
D. crassipes in, on Capra 1481
Dasyhelea spp. in 1483
Dermacentor marginatus in, on cattle communities of 3183 in Finland 2892 Soriculus hypsibius Palaeopsylla longidigita on, in Szechwan Province 1033 Sphaerodema annulatum food conversion efficiency in preying on, Culex spp. 1327 P. obtuspina on, in Szechwan Province 1033 1486 preying on, Culex spp. 132/ Sphaerodema urinator biology of 1039 in Egypt 1039 preying on, Culicidae, in Egypt Sphecidae, in Nansei Islands 712 Soriculus nigrescens, Soriculopus nepalensis on, in Nepal 3231 Echidnophaga murina in, on small mammals 312 soubrense, Simulium Haemaphysalis hispanica in on Lepus 1479 on rabbit 1479 South Africa Aedes caballus in, natural enemies of on rabbit 341 Hermetia illucens in 388 sphegeus, Sepedon Amblyomma hebraeum in horse in, arthropod pests of 1495 Sphingomyelins, in zebu plasma, effects of Anopheles cameroni in 2768 Buthidae in, on man 679 Hypoderma spp. in, on cattle 1491, 1492 Hystrichopsylla spp. in 2084 ticks on 1425
spilogaster, Poecilometopa Spilopsyllus cuniculi dispersal of 1549 Ixodoidea in on Lepus on rabbit Cheiracanthium lawrencei in, on man 3240 1494 Cheyletiella blakei in, on cat 417 C. parasitivorax in, on rabbit 417 C. yasguri in, on dog 417 in Australia, introductions of 1549, 2365 in Spain 1494 1494 Listrophorus occitanus in, on small mammals 274 myxoma virus in Chrysomya chloropyga in, natural enemies Mallophaga in, on Columbiformes 1480 of 379 Myocoptidae in, on small mammals 1478 transmission of 2365 C. megacephala in 614 Culex pipiens in 340 C. pulchrithorax in 2087 Odontopsyllus quirosi in on Lepus 1482 on rabbit in Victoria 1549 in Western Australia 2365 on rabbit 1482 C. quinquefasciatus in 340 Culicidae in, on pigeon 1575 Culicoides spp. in, viruses in 3105 C. hildae in 2811 Ixodidae in Parasteatonyssus hoogstraali in, on Tadarida 1493 reproduction by 475 reproduction by 475
rearing of, techniques for 23
seasonal abundance of 1494
sex-ratio in 2350
spiniger, Heterodoxus
spinigera, Haemaphysalis
spinipes, Acanthophthirius
spinipes, Sisyphus 2349 Phlebotomus perniciosus in 1485
Rhipicephalus bursa in, on cattle 148
rivers in, invertebrates in 1499
Scarabaeidae in, in cattle dung 1968
Sciomyzidae in 392 1487 on cattle 655 on livestock 2016 Kirkioestrus minutus in, on Connochaetes Sergentomyia minuta in 1485 3139 Siphonaptera in Spiniphora maculata Listropsylla spp. in 2717 on Lepus 1494 on rabbit 1494 food preferences in in USSR 1400 1400 Lucilia sericata in, natural enemies of on small mammals 329 seasonal abundance of 1400 medical entomology in 537, 996 pesticide use in 39 spinosu, Odagmia (see Simulium spinosum) spinosum, Simulium (Odagmia) spinosus, Paradoxopsyllus spinosus, Pygmephorus spinosus, Steatonyssus Tabanidae in 391 tree-hole dwelling arthropods in 1490 R. evertsi in 1995 Trichodectidae in, on domestic animals 448 Vespidae in 1967 Sarcophaga haemorrhoidalis in, natural enemies of 379
Sarcoptes scabiei in, on man 3227 Spinturnicidae, on bat, in Western Australia Spalangia parasitising Musca domestica Spinturnix Simulium nigritarsis in, on turkeys veterinary entomology in 310, 2987 in Netherlands 2503 on bat in North Carolina 3179 in Japan 943

| Spinturnix conta. | squamosum, Simunum | Stenoponia americana conta. |
|--|---|---|
| on bat contd. | squamosus, Culex | on rodents, in Colorado 1028 |
| in New England 2304 | Squirrel, Rhodnius pallescens on, in Panama | stenopselapha, Hybomitra |
| Spinturnix maedai | Canal Zone 21 | Stenotabanus fulvistriatus |
| sp. nov., description of 943 | Squirrel, four-striped (see Funisciurus) | in Costa Rica 2496 |
| in Japan 943 | Sri Lanka | on horse, in Costa Rica 2496 |
| on Murina, in Japan 943 | Anopheles culicifacies in 2364, 2427 | preyed on by, Bembix multipicta, in Costa |
| Spinturnix myoti, complex of, on bat, in | in cattle sheds 2092 | Rica 2496 |
| Japan 943 | Culex edwardsi in 1635 | Stephanofilaria stilesi |
| spinulosa, Polyplax | Ornithodoros coniceps in 1431 | in |
| Spirometra mansonoides, in, Acanthocyclops | Uranotaenia srilankensis in 1636 | Haematobia irritans, in Uzbekistan 77 |
| vernalis, infectivity of, genetics of 1817 | srilankensis, Uranotaenia | H. thirouxi, in Uzbekistan 77 |
| Spiro[11-oxabicyclo[8.1.0]undec-6-en-2,2'- | Stables | stephensi, Anopheles |
| oxiran]-3-one, 8-methylene-5-(1- | Anopheles albimanus in, in El Salvador | Steppe |
| methylethyl)-, (1(10)Z,6E)-, Periplaneta | 1602 | Phlebotominae in, effects of gerbil |
| americana sex pheromone 1522 | Musca domestica in, in West Germany | eradication on 2139 |
| Spiroplasmataceae, in, Haemaphysalis | 3160, 3167 | Trombiculidae in, habitat change by |
| leporispalustris, pathogenicity for | tick control in, acaricides for 2595 | 1783 |
| vertebrates of 3189 | stabulans, Muscina | stercoraria, Scathophaga |
| splendens, Eutrombicula | stabularis, Eulaelaps | stercorarius, Geotrupes |
| Spodoptera littoralis | Stachiella kingi | Sterile-insect release 467, 2314 |
| pyrethroids in | in USA 57, 1256, 1527 | against |
| metabolism of 487 | on Mustela nivalis, in Indiana 57, 1256, | Anopheles albimanus 1602, 2267, 2396 |
| penetration of 487 | 1527 | Cochliomyia hominivorax 462, 900, |
| Sporosarcina, in, Argas persicus, in Pakistan | Stachiella larseni | 1399, 2267, 2523, 2687 |
| 1996 | in USA 57, 1256, 1527 | Culex tarsalis 1867 |
| Sporozoa | on mink, in Indiana 57, 1256, 1527 | Glossina spp. 570 |
| Anaplasma 654, 1192, 2677, 2682 | staffordi, Hirstionyssus | G. palpalis 200, 565, 2722 |
| A. marginale 2132, 2415, 2601, 2628, | Stagnicola palustris, preyed on by, Dictya | genetic research in 2267 |
| 2683 | umbrarum 898 | parthenogenesis encouraged by 2270 |
| Ascocystis culicis 1092, 2357 | Stannane, tributylfluoro- | Steroids |
| Ascocystites barretti 1647 | against, Culicinae 696 | hydroxy |
| Babesia 412, 654, 1761, 2210, 2677, | formulations of, controlled release 696 | in Musca domestica, effects of diet on |
| 2682, 2683, 2912, 2950 | Stannane, tricyclohexylhydroxy- (see | 381 |
| B. bigemina 719 | Cyhexatin) | in Musca domestica cuticle, role in |
| B. bovis 250, 719, 924, 3191 | stantoni, Phlebotomus | insecticide resistance of 1162 |
| B. caballi 2576 | Staphylinidae | Sterols (see Steroids, hydroxy) |
| B. canis 920, 1432 | Aedes sierrensis eggs not eaten by 1885 | Stewart Island, Siphonaptera in 769 |
| B. divergens 250, 2005, 2625, 3191 | preying on, Lardoglyphus falconidus, in | sticticus, Aedes |
| B. microti 250, 1998, 2003, 2575, 2629, | New York 276 | Stigmaeus youngi |
| 3187, 3191 | traps for 1813 | in India 2816 |
| Eimeria tenella 3156 | Staphylininae | parasitising, Phlebotomus spp., in Gujarat |
| Helicosporidium 1606 | flight activity in 2892 | 2816 |
| Leucocytozoon simondi 1927 | in dung, in Finland 2892 | Stigmast-5-en-3-ol, fluoroacetate, (3β) -, |
| L. smithi 365, 1364, 1927 | Staphylococcus, in, Argas persicus, in | against, Solenopsis invicta 1969 |
| Plasmodium 474, 537, 723, 825, 980, | Pakistan 1996 | Stigmatomyces crassicollis, in, Leptocera |
| 1058, 1060, 1350, 1505, 1656, 1817, | Staphylococcus aureus | spp., in Italy 1960 |
| 2038, 2099, 2265, 2284, 2286, 2379, | In | Stigmatomyces hydrelliae, in, Hydrellia spp., |
| 2403, 2414, 2427, 2436, 2695, 2729, | Dugesiella anax 2249 | in Italy 1960 |
| 2755, 2794, 2799, 2950, 2985, 3041, 3099 | Triatoma infestans excreta 2704 | Stigmatomyces scaptomyzae, in, Scaptomyza |
| P. berghei 927, 1048, 1049, 1332, 2369, | Staphylococcus epidermidis, in, Triatoma infestans excreta 2704 | spp., in Italy 1960 Stilobezzia, in Cayman Islands 1658 |
| 2792 | Staphylococcus saprophyticus, in, Triatoma | stimulans, Aedes |
| P. cathemerium 440 | infestans excreta 2704 | stimulans, Haematobosca (Siphona) |
| P. cynomolgi 13, 528 | Starch | stimulans, Siphona (see Haematobosca |
| P. falciparum 332, 443, 774, 1046, 1057, | diet component for | stimulans) |
| 1074, 1595, 1596, 1627, 1848, 2098, | Dermatophagoides farinae 2569 | Stirofos (see Tetrachlorvinphos) |
| 2774, 3100 | Ophyra aenescens 908 | Stockade (see Permethrin) |
| P. gallinaceum 1067, 1910, 2730 | in Cheyletus eruditus diet, digestion of | Stocking density, of livestock, effects on |
| P. hermani 12 | 2041 | ticks of 1988 |
| P. knowlesi 13, 824 | Statistical methods, transformations for | stokesi, Aedes |
| P. malariae 332 | quantal response in biological assays | Stomoxyinae |
| P. simiovale 1337 | 2673 | in Comoro Islands 2690 |
| P. vivax 332, 1595, 1596, 1627, 1910, | Stearic acid (see Octadecanoic acid) | taxonomy of, characters for, effects of |
| 3079 | Steatonyssus, in China 2656 | temperature on 894 |
| P. yoelii 1592 | Steatonyssus megaporus | Stomoxys |
| Sarcocystis 255 | sp. nov., description of 2917 | control of, insecticides for 2166 |
| Theileria 255, 654, 1432, 2223, 2225 | in China 2917 | in Ivory Coast 571 |
| T. annulata 1183, 2549, 2617, 3198 | on Taphozous melanopogon, in China | in Thailand 1731 |
| T. mutans 2132 | 2917 | on cattle, in West Germany 2166 |
| T. ovis 2627, 3188 | Steatonyssus periblepharus | Stomoxys calcitrans |
| T. parva 2221, 2950, 2955 | in China 2656 | biology of 870, 1141, 1681 |
| T. velifera 1197 | in Poland 935 | blood-feeding in 3145 |
| Toxoplasma 2528 | on bat, in Poland 935 | blood-meals in digestion of 2524 |
| T. gondii 1430 | Steatonyssus sinicus | |
| Spotted-fever rickettsiae in | sp. nov., description of 2656 in China 2656 | measuring of 218 canavanine in, toxicity of 1946 |
| Dermacentor marginatus, in Hungary | on Eptesicus serotinus, in China 2656 | control of |
| 1439 | on Miniopterus, in China 2656 | eliminating breeding places for 870 |
| D. reticulatus, in Hungary 1439 | Steatonyssus spinosus | growth regulators for 2871 |
| D. variabilis, in Connecticut 251 | in China 2656 | insecticides for 145, 870, 1394, 2181, |
| Ixodes ricinus, in Switzerland 2206 | in Poland 935 | 2848, 2849, 2884, 3245 |
| man, in Costa Rica 2208 | on bat, in Poland 935 | traps for 870, 888 |
| in Europe 2574 | Steatonyssus superans, in China 2656 | digestion in 1944 |
| Sprays | Stegomyia | distribution of 1681 |
| equipment for, controlled droplet | arboviruses in, in Senegal 2780 | diurnal activity in 2840 |
| application 1811 | in Nigeria 334 | enzymes in 1714 |
| techniques for, ULV, sampling and | mating in 169 | fecundity in, effects of enzyme inhibitors |
| analysis of droplets 1476 | on man, in Nigeria 3043 | on 1955 |
| weather as affecting deposit patterns from | Stegopterna mutata (see Cnephia mutata) | feeding in 1944 |
| 138 | Stenoponia, on gerbil 1021 | in Australia 1681 |
| squamipleuris, Sergentomyia squamosa, Vespula | Stenoponia americana | in Bulgaria 877 in Japan 2177, 2840 |
| MUDAULISA, VESIIIIA | in USA 1028 | III Japan 21//, 2040 |

Stomoxys calcitrans contd. Streptothricin F, in Culex molestus, toxicity Sugars contd. in Netherlands 2503 in UK 1141, 2848, 2849, 2853 in USA 207, 888, 1718 of 2388 in Phormia regina contd. Stress receptors for contd. in fowl effects of cations on 2847 in West Germany in Phormia terraenovae diet, receptors for 1394 increasing resistance to Ornithonyssus sylviarum 941 2500 in Zambia 1374 in cattle dung, in Australia 1681 in dairies, in Florida 888 role in susceptibility to *Ornithonyssus* sylviarum of 1829 Suicide, in man, prompted by nasal myjasis 884 striata, Euschoengastia (Trombicula) striatum, Trombicula (see Euschoengastia in dung, in Netherlands 2503 Suidae, Glossina brevipalpis on, in Uganda 3133 in livestock farms, in Bulgaria 877 suis, Haematopinus striata in solid waste, in California 207 striola, Plea suis, Sarcoptes (see S. scabiei) insecticide solvents in, toxicity of 303 strodei. Anopheles sulcata, Haemaphysalis male frons width in, effects of temperature Strongylidae, in, horse dung, effects of Scarabaeidae on 911 sulcatus, Rhipicephalus on 894 sulcatus, Rhipicephalus
Sulfanilamides, in rabbit, effects on Glossina
palpalis of 1121
Sulfaphenazole (4-amino-N-(1-phenyl-1Hpyrazol-5-yl)benzenesulfonamide)
in rabbit, effects on Glossina palpalis of
1121, 2835
Sulfatase, in Periplaneta americana marking of strongylus, Ctenocephalides felis radiophosphorus for 1705 techniques for 219 Dermestes lardarius in, in UK 638

D. maculatus in, in UK 638 methoprene in, inhibiting emergence 2871 Strumigenys rogeri in Canada 2204 on cattle 870 effects on milk production of 2848 in hothouses, in Manitoba 2204 Strychnine, in dog, poisoning by 3252 integument, role in mating of 1518 in Honshu 2840 in UK 2849, 2853 Sulfenyl-propoxur (see Carbamic acid, [[4stubbei. Afrolistrophorus (1,1-dimethylethyl)-2-Sturnophagoides brasiliensis in Colombia 3225 in West Germany 1394 methylphenyl]thio]methyl-, 2-(1on horse, hypersensitivity to 357 on man, in Colorado 1718 methylethoxy)phenyl ester) in house dust, in Colombia 3225 Sulfur Sturnus vulgaris, Ornithonyssus bursa on, in New Zealand 936 Stygeromyia, in Thailand 1731 stygia, Calliphora Stylidia integra parasitised by, Spalangia endius 1735 polyenes in, laboratory synthesis of 594 Cheyletiella spp., on dog 1455 Sarcoptes scabiei, on man 3216 preyed on by, Tabanus nigrovittatus Sulfuric acid pupae of, cuticle formation in 872 rearing of, diets for 215 seasonal abundance of 877, 2840 copper(2+) salt (1:1) in Aedes aegypti, toxicity of 2736 in Hydrophilus triangularis, not toxic distribution of 394 hosts of 394 seax pheromone of, components of 593 taxonomy of, characters for, effects of temperature on 894 in Saudi Arabia on bat, in Saudi Arabia 394 in Tropisternus lateralis, not toxic taxonomy of 394 1854 zinc(2+) salt (1:1), in Aedes aegypti, toxicity of 2736
Sumicidin (see Fenvalerate)
Sumithion (see Fenitrothion)
Sumithrin (see Phenothrin, (1R-cis,trans)-)
summorosus, Culex tritaeniorhynchus temperature as affecting 2880 Stylogaster, in Indo-Australian region 595 temperature preferences in 3159 Stylogaster liepae sp. nov., description of 595 Trypanosoma theileri in, not infective 887 sp. nov., description of 595
associated with, Lucilia sericata, in Lord
Howe Island 595
in Lord Howe Island 595
styracicola, Astegopteryx
Styrax suberifolia, Astegopteryx styracicola
on, in Taiwan 764 tsetse control not affecting 1374 weight changes in 3145 Stomoxys nigra biology of 626 control of 626 sunci. Hirstionyssus Suncus murinus Leptotrombidium deliense on, in Taiwan in Mauritius 626 subalbatus, Armigeres mite control on, acaricide-impregnated baits for 939 in sugar-cane plantations, in Mauritius subalpinus, Anopheles maculipennis (see A. 626 melanoon subalpinus) subalpinus, Anopheles melanoon subbadius, Macrocheles subcincta, Paralauterborniella Polyplax reclinata on, in Japan 708 Trombiculidae on, in Maharashtra 930 on cattle, in Mauritius 626 rearing of, techniques for 580, 626 Storage mites, on man, hypersensitivity to sundaicus, Anopheles subcostatum, Cnetha (see Simulium Sundasciurus hippurus, Haemolaelaps bidens on, in West Malaysia 2715 Stored products, pest control in, fumigants for 451 subcostatum) subcostatum, Simulium (Cnetha) subfascipennis, Culicoides Supella longipalpa control of Storm drains, Culex pipiens in, in California subflava, Euproctis (see E. flava) subimmaculatus, Culicoides subintermedium, Leptotrombidium hygiene for 479 insecticides for 1888 stramineus, Menacanthus strandtmani, Womersia courtship in 1823 in India 1268 in Italy 479, 2331 Straw, Eulaelaps spp. in, in West Germany sublacustre, Simulium submedianus, Pteracarus submorsitans, Glossina morsitans in dwellings, in Italy in foodstuffs, in Italy Streams diflubenzuron in, detachment of subniveus, Aedes subniveus, Aedes subcheea, Culiseta subpictus, Anopheles subpunctata, Spalangia subsimplicipes, Eretmapodites Suburban areas, Aedes albopictus in, in West Malaysia 1085 Simuliidae caused by 1666 Hydropsyche spp. in, effects on organic transport of 1930 Simuliidae in parasites of, in India 1268 taxonomy of, oothecal characters for 1836 superans, Steatonyssus distribution pattern of 1113 in Costa Rica 3118 relocation of 188 sampling of 3118 Suramin in Aedes aegypti
inhibition of formyltetrahydrofolate
synthetase by 1051 Sucrose (see α-D-Glucopyranoside, β-Dfructofuranosyl) Simulium spp. in, effects on organic transport of 1930 inhibition of thymidylate synthase by Alphitobius diaperinus in, cestodes in 2419 Streams, chalk, Simuliidae in, in England Surfactants, in diazinon formulations, effects 2817 Argas persicus in, on fowl 2227 on insecticidal activity of 3244 Streptococcus Cladotanytarsus lewisi in, on man 886 Surfactants, non-ionic, insecticidal activity of Hyalomma dromedarii in, viruses in 2573 1941 in Suricatoecus quadraticeps in USA 57, 1256, 1527, 1530 on Canis latrans, in Indiana 57 on Urocyon cinereoargenteus in Indiana 57, 1256, 1527 in Texas 1530 Argas persicus, in Pakistan 1996 cattle, in inflamed warbles 865 Ixodidae in, on domestic animals 2007 onchocerciasis in 2452 Rift Valley fever in 3064 sudeticus, Acanthophthirius Streptococcus faecalis synanthropic Diptera 2163 Triatoma infestans excreta 2704 Sugar-cane (Saccharum officinarum) Streptopelia decaocto, Ixodes ricinus on, in West Germany 2218 Streptopelia turtur, Mallophaga on, in Spain on Vulpes vulpes, in Indiana Suricatoecus vulpis, in USA 57 Sugar-cane leaves, shredded, diet component for, Stomoxys nigra 580 Sugar-cane plantations 1480 Coquillettidia venezuelensis in, viruses in Glossina spp. in, in Ivory Coast Streptothricin C
against, Culex molestus 2388
antibiotic activity of 2388 Stomoxys nigra in, in Mauritius 544 Culex spp. in, viruses in 544
Sus scrofa, Ixodidae on, in Assam 48
Sus scrofa domestica (see Pig) Sugars diet component for, Myospila meditabunda 2164 Streptothricin D in Phormia regina suspensa, Anastrepha suzukii, Simulium against, Culex molestus 2388 antibiotic activity of 2388 receptors for 881, 1158

| Subject Much | | 347 |
|--|---|---|
| Swallow, Ornithodoros coniceps in nests of | Synergists | Tabanus bromius |
| 1431 | substances tested as: | in Czechoslovakia 1688 |
| Swallow, cliff (see Petrochelidon | acetylene derivatives of 1,3-benzodiozole | in USSR 1406 |
| pyrrhonota) | 2669 | on cattle, in Czechoslovakia 1688 |
| Swamps Anopheles sinensis in, distribution pattern | 3-(1,3-benzodioxol-5-yl)propanamides 2670 | Pheromermis zaamini in, in Uzbekistan 1406 |
| of 3071 | Pimpinella anisum extracts 2668 | Tabanus bromius flavofemoratus (see T. |
| Culex pipiens in, distribution pattern of | Synthase, chitin (see Acetylglucosaminyltra- | bromius) |
| 3071 | nsferase, chitin-uridine diphosphate) | Tabanus chrysurus |
| C. tritaeniorhynchus in, distribution | Synthase, phenoxazinone, in Lucilia cuprina, | in Japan 890 |
| pattern of 3071 | relation of eye colour mutants and 2493 | nectar-feeding in 890 |
| Culiseta melanura in, in New York 1831 | Synthase, thymidylate | Tabanus cymatophorus, in USA 395 |
| Sweating sickness, in cattle, in Zimbabwe | in Aedes aegypti | Tabanus dorsiger |
| 654 | not affected by Brugia pahangi 2419 | in Costa Rica 2496 |
| Sweden | properties of 2419 | on horse, in Costa Rica 2496 |
| Cnephia tredecimata in 1664 Coleoptera in, in rabbit burrows 602 | Synthetase, formyltetrahydrofolate in Aedes aegypti | preyed on by, <i>Bembix multipicta</i> , in Costa Rica 2496 |
| Laelaps agilis in, on small mammals 672 | effects of Brugia pahangi on 1051 | Tabanus dorsilinea, taxonomy of, Tabanus |
| mites in, in house dust 2923 | properties of 1051 | macer as synonym of 1142 |
| Simulium truncatum in 1664 | Synthetase, methionine (see | Tabanus fraternus |
| Sweet itch, in horse 357 | Methyltransferase, tetrahydrofolate) | in Zambia 1374 |
| Swift, Ornithodoros coniceps in nests of | Syrphidae, in livestock farms, in Bulgaria | in woodland, effects of insecticides on |
| 1431 | 877 | 1374 |
| Swimming pools, Hemiptera in 1567 | Tabanidae | Tabanus golovi |
| Swine (see Pig) | control of | in USSR 1406 |
| Swine vesicular disease virus | biological 2354 | Pheromermis zaamini in, in Uzbekistan |
| in | repellents for 981 | 1406 |
| Calliphora vicina | embryonic development in, effects of temperature on 3152 | Tabanus humilis in Japan 890 |
| persistence of 2510 | Filarioidea in, transmission of 2950 | nectar-feeding in 890 |
| trans-stadial transmission of 2510 Switzerland | habitats of 892, 1684 | Tabanus iyoensis |
| Aedes spp. in 2750 | in Comoro Islands 2690 | control of, insecticides for 2486 |
| Chorioptes bovis in, on sheep 1776 | in France 892 | in Japan 890, 2486 |
| Culicidae in 2751 | in Hispaniola 3161 | nectar-feeding in 890 |
| Demodex ovis in, on sheep 1776 | in Honshu 2486 | on man, in Honshu 2486 |
| Glycyphagus helveticus in, in Arvicola | in Ivory Coast 571 in Maine 1552 | Tabanus katoi in Japan 890 |
| terrestris nests 1451 | in Maritime Territory 233, 581 | nectar-feeding in 890 |
| Hystrichopsylla spp. in 2084 | in Mongolia 1706 | Tabanus laetitinctus sordes |
| Ixodes ricinus in | in Nansei Islands 716 | Eurymermis spp. in, in Tadzhikistan |
| flagellates in 412 | in Netherlands 901 | 1406 |
| nematodes in 412 | in Oriental region 2888 | in USSR 1406 |
| rickettsiae in 412, 2206 | in Palaearctic region 2514 | Tabanus leleani |
| I. trianguliceps in 1435 Myobiidae in, on bat 673, 1450 | in Poland 1722 in Puerto Rico 3161 | in USSR 1406 Pheromermis zaamini in, in Uzbekistan |
| Sarcoptes scabiei in, on sheep 1776 | in Siberia 601 | 1406 |
| Swormlure-2, attractant for, Cochliomyia | in Soviet Far East 25 | Tabanus macer, taxonomy of, synonym of T. |
| hominivorax 1708 | in Spain 391 | dorsilinea 1142 |
| sylvaticus, Hystrichopsylla occidentalis | in Tennessee 1954 | Tabanus maculicornis |
| sylvestris, Cricotopus | in Uganda 3180 | in Czechoslovakia 1688 |
| sylviarum, Ornithonyssus | in USSR 9, 1135 in Uzbekistan 3028 | on cattle, in Czechoslovakia 1688 |
| Sylvilagus audubonii, Meringis facilis on, in USA 327 | in West Virginia 395, 1161 | Tabanus nigrovittatus Entomophthora tabanivora in, in |
| Sylvilagus floridanus | in rivers, in Spain 1499 | Massachusetts 2530 |
| arthropod parasites of, in Virginia 2282 | on cattle | in USA 387, 1164, 1166, 2530, 2862 |
| Atelepalme ralfi on, in Venezuela 278 | effects on milk production of 981 | in recreation areas, in USA 2862 |
| Symbiosis, book 475 | in Czechoslovakia 1688 | nectar-feeding in 387 |
| Symphoromyia cervivora | in UK 2853 | parity in, determining of 1164 |
| biology of 873 in USA 873 | in West Germany 3157 on livestock | preying on, Stomoxys calcitrans 1166 rearing of, techniques for 1166 |
| on Odocoileus hemionus, in California | in Maritime Territory 2168 | taxonomy of 2862 |
| 873 | in USA 2862 | Tabanus rubidus, rearing of, techniques for |
| Symphoromyia inconspicua | on man, in USA 2862 | 726 |
| biology of 873 | taxonomy of, eye patterns as characters | Tabanus rufidens |
| in USA 873 | for 1954 | control of, insecticides for 2486 |
| on <i>Odocoileus hemionus</i> , in California 873 | traps for 1409 vertical distribution of 391 | hovering in 2487 |
| Symphoromyia nana | weather as affecting 1959 | in Japan 890, 2486, 2487 nectar-feeding in 890 |
| biology of 873 | Tabaninae, on cattle, landing sites of 2182 | on cattle, in Honshu 2487 |
| in USA 873 | Tabanini | Tabanus rupium |
| on Odocoileus hemionus, in California | biology of 1142 | autogeny in 2157 |
| 873 | in Thailand 1142 | in France 2157 |
| Symphoromyia pachyceras | taxonomy of 1142 | Tabanus sapporoensis |
| biology of 873 in USA 873 | Tabanus | in Japan 890 |
| on Odocoileus hemionus, in California | biology of 1142 control of | nectar-feeding in 890 Tabanus signatipennis |
| 873 | insecticides for 630, 2862 | descriptions of 232 |
| Symphoromyia sackeni | traps for 2862 | in USSR 232 |
| biology of 873 | in China 1148 | Tabanus taeniola |
| in USA 873 | in Hispaniola 3161 | in Zambia 1374 |
| on Odocoileus hemionus, in California | in Thailand 1142 | in woodland, effects of insecticides on |
| 873 Symphoromyia truncata | on cattle, in Texas 630 on horse, in Spain 1495 | 1374 Tabanus trigeminus |
| biology of 873 | on man, in USA 2862 | in Japan 890 |
| in USA 873 | parity in, determining of 1164 | nectar-feeding in 890 |
| on Odocoileus hemionus, in California | taxonomy of 1142 | Tachinaephagus zealandicus |
| 873 | weather as affecting 1959 | in South Africa 379 |
| Symphyta, book 2994 | Tabanus amaenus griseinus, in USSR 25 | in USA 1553 |
| Synaptomys cooperi, arthropod parasites of, in Indiana 1424 | Tabanus biguttatus in Zambia 1374 | Chrysomya chloropyga, in South Africa |
| in Indiana 1424 synaptomys, Listrophorus | in woodland, effects of insecticides on | Chrysomya chloropyga, in South Africa 379 |
| Syncerus caffer (see Buffalo, African) | 1374 | Lucilia sericata, in South Africa 379 |
| | | |

Techniques contd.

Tachinaephagus zealandicus contd.

for testing toxicity of power-station parasitising contd. onchocerciasis in 2452 Sarcophaga haemorrhoidalis, in South Rhipicephalus evertsi in 1179 effluent 2736 Africa 379 Simulium nyasalandicum in 843 tecomanus. Centruroides limpidus preyed on by, Holcocephala fusca, in Virginia 1553 S. woodi in 843 telchinus, Malaraeus sleeping sickness in Telenomus costalimai Tachinidae, adults of, larval fat-body persisting in 586
tachinoides, Glossina
Tachycardia, in dog, caused by Buthus
tamulus venom 3236 competing with, Ooencyrtus trinidadensis Taneworm (see Cestoda) Taphozous melanopogon Araeopsylla elbeli on, in China 2343 intraspecific competition in 2072 Steatonyssus megaporus on, in China oviposition in 71 parasitising, Rhodnius prolixus 71, 2072 Tadarida teniotis Telenomus fariai Ugandobia dissimilis on, in Thailand Araeopsylla gestroi on, in Spain 1493 Cheletonella vespertilionis in dung of, in Spain 1493 distribution of 495 1773 hindering rearing of Triatominae 1019 in Argentina 493 Tapinoma melanocephalum in Canada 2204 Parasteatonyssus hoogstraali on, in Spain parasitising parasitising
Triatoma infestans 495
in Argentina 493
T. phyllosoma 495, 1014
population dynamics of 495, 1014
Telmatoscopus albipunctatus
in Malaysia 578
on man, in West Malaysia 578
Temephos (O.O'-(thiodi-4,1-phenylene) in dwellings, in Manitoba 2204 1493 taeniola, Tabanus tarandi, Oedemagena tarandinoides. Hybomitra taeniopus, Culex taeniorhynchus, Aedes Tarene (see Chlorfenvinphos) tarimensis, Xenopsylla Ťahyňa virus tarimi, Chrysops tarsalis, Culex foci of 126 in Aedes spp., in Italy 2967 Tarsonemida A. vexans in house dust bis(O,O-dimethyl phosphorothioate)) in Czechoslovakia 2119 overwintering of 1343 in Denmark 1781 Aedes aegypti 1063, 1909 in Ohio 1794 in Onio 1794

Tarsonemus, in house dust, in Peru 273

Tarsopsylla octodecimdentata
biotopes of 499
in USSR 499 Aedes aegypti 1005, 1909 in water containers 1079, 1320 A. cantans 803 Anopheles spp. 131 A. franciscanus 116 transovarial transmission of 1343 Culex pipiens, in Romania 2430 Culicidae in Czechoslovakia 126 531 transovarial transmission of 2969 on small mammals, in USSR 499 A. maculatus 531 A. stephensi 1909 dog, in Romania 2430 man, in Romania 2430 tartakovskyi, Ornithodoros Chironomidae 2870 Culex pipiens 2743 taurus, Onthophagus taiganus, Ceratophyllus (see Megabothris Taxidea taxus arthropod parasites of, in Indiana 1256
Neotrichodectes interruptofasciatus on
in Indiana 57, 1527
in Texas 1530
Taxonomy, electrophoresis in 2274 C. quinquefasciatus 116, 131, 1329, taiganus, Megabothris (Ceratophyllus) 1909, 2374 1909, 2374
C. tarsalis 116
Culicidae 975, 1075
Culicinae 696
Culicoides belkini 1098
Culiseta inormata 116
Cyclops spp. 1803
Haemaphysalis longicornis, on cattle 3197 Taiwan Astegopteryx styracicola in, on man 764
Culex spp. in 174
Leptotrombidium deliense in 2919
on small mammals 939 taylori, Aedes
Tears, in man, caused by Grylloidea 2896 Simuliidae in 840 Techniques taiwana, Euproctis talmiensis, Neotrombicula for analysing house dust 933 for cleaning ticks for SEM 1768 Talpa europaea, Echinonyssus lukoschusi on, for collecting blood-sucking Culicidae Linognathus vituli, on cattle 757 Simulium spp. 1114 S. damnosum 1109 in Czechoslovakia 2235 120 talpae, Hystrichopsylla for collecting Polistes venom 1741 in rivers 1928
S. venustum 2456
formulations of
controlled release 696 for collecting, preserving and slidemounting of arthropods for counting Phlebotomines 184 Talpidae arthropod parasites of, in USA 1814 Pygmephorus spp. on, in North America 184 for demonstrating arthropod cuticular topography 2305 2643 tamanta, Leptotrombidium Tamias sibiricus polyethylene pellets 116 for detecting repellency in insecticides in Cyclops, toxicity of 803 in Daphnia, toxicity of 803 1004 Tamiopsochirus laosensis on in Hydropsyche pellucidula, toxicity of 1114 in Japan 280 in USSR 280 for determining insect somatic ploidy 1538 Tamias striatus for evaluating acaricides against mites in Rhyacophila dorsalis, toxicity of 1114 Tamias striatus
arthropod parasites of, in Indiana 1800
habitats of 928
tamiasciuri, Dermacarus
tamiasciuri, Enderleinellus
Tamiasciurus hudsonicus, arthropod
parasites of, in Indiana 1800
Tamiopsochirus, taxonomy of 280
Tamiopsochirus laosensis 668 in rivers for evaluating salt concentrations in insect glands 1785 effects on fish of 3117 non-target effects of 1928 in roadside drains, persistence of 2743 for extracting mites from house dust 1779 in Romanomermis culicivorax, toxicity of for feeding blood-sucking flies on mammalian ears 1661 for identifying arthropods 436 1891 resistance to, in

Culex quinquefasciatus, effects of synergists on 2374

Culicidae, in Utah 1300 synergists for 2374 in Japan 280
in Laos 280
in USSR 280 for identifying insect juvenile hormones for isolating Plasmodium from mosquitoes 927 with Romanomermis culicivorax, not on Sciuridae, in Laos 280 for marking large numbers of stable flies compatible 1047 on Tamias sibiricus 219 tempestiva, Musca tenax, Eristalis tenax, Rhodacantha tenax, Trichoecius in Japan 280 in USSR 280 for measuring insect blood-meals 218 for measuring insect body temperature Tamiopsochirus lukoschusi sp. nov., description of 280 in Japan 280 1261 Tenebrio molitor for measuring insect wing-beat frequency control of, growth regulators for 705, 1231, 1393
juvenile hormones in, identifying of 2 772 on Pteromys momonga, in Japan 280 for preparing polytene chromosomes of Anophelinae 1899 tamulus, Buthus
Tanone (see Phenthoate) nucleic acids in 396 rectal glands in, evaluating salt for preparing slides of ticks 917 for preserving insect genitalia in vials 2048 Tanytarsus emergence in 889 concentrations in 1785 in recreational lakes, in California 889 in rice-fields, distribution pattern of 1137 for producing immune sera to scorpion venoms 2932 Tenebrionidae, body temperature in, measuring of 1261 tenebrosa, Cuterebra tenebrosus, Anopheles tenmai, Microtrombicula **Tanzania** for screening potential insecticides 1471 Aedes aegypti in 1063 Amblyomma lepidum in 1999 A. variegatum in 1999 for separating eggs from female ticks 1184 for separating mosquito eggs from debris Tennessee Anopheles spp. in, filariae in 131 applied entomology in 474
Culex quinquefasciatus in, filariae in 131 Culex spp. in, viruses in 828 C. pipiens in 1631 for storing dried mosquito eggs 509 for studying mosquito genetics 143 quinquefasciatus in 1631 C. watti in 2781 for testing oral toxicity of chemicals to Culicoides paraensis in 833 Glossina morsitans in 3134 384 Tabanidae in 1954

flies

Tanzania contd.

| Tennessee contd. | Tetramethrin contd. | Texas contd. |
|---|---|--|
| Tabaninae in, on cattle 2182 | against contd. | Culex contd. |
| Tensaw virus, in, Anopheles crucians, in | Aedes contd. | C. tarsalis in 163 |
| Alabama 510 | A. sticticus 1642 | Culicidae in, in woodland pools 142 |
| tenuiclavus, Herpetacarus tenuihama, Amphipsylla | A. vexans 1642 Argas persicus 2042 | Cuterebra fontinella in, on Liomys 1389 Damalinia fulva in, on Ammotragus |
| tenuipes, Anastatus | Blattella germanica 1225 | 2065 |
| Tepa (1,1',1"-phosphinylidynetris[aziridine]) | Cimex lectularius 1225, 2042 | Diptera in, in pig confinement housing |
| in Aedes aegypti, toxicity of 127 | Culex molestus 1642 | 1704 |
| in Blattella germanica, effects on | C. pipiens 1642 | Gasterophilus nasalis in, on horse 1680 |
| spermatogenesis of 54 | Culiseta annulata 1642 | Geomydoecus spp. in, on Geomys 754 |
| sterilant for Aedes aegypti 127 | Dermanyssus gallinae 2042 Menacanthus stramineus 2042 | Haematobia irritans in, on cattle 591, 630 |
| A. caspius 79 | Musca domestica 1225, 3176 | Hypoderma spp. in, on cattle 865 |
| Tephrina disputaria | in Musca domestica | Ixodoidea in, on Odocoileus 1202 |
| in Saudi Arabia 1236 | effects on nervous system of 2843 | Leptocera vagans in, in feedlots 2161 |
| on man, in Saudi Arabia 1236 TEPP (tetraethyl diphosphate) | effects on neuromuscular system of 584 | Mallophaga in, on mammals 1530 Notoedres cati in, on zoo Uncia uncia |
| in Acheta domesticus, effects on | resistance to, in | 1446 |
| melanisation of 2062 | Blattella germanica, in USSR 248 | Odocoileus hemionus in, arthropod |
| in Periplaneta americana, effects on | Musca domestica 2843 | parasites of 2264 |
| melanisation of 2062 | synergists for, piperonyl butoxide as | Ornithodoros capensis in, viruses in 2622 |
| Teratogens, phosmet 1808 teres, Ctenophthalmus | 3176 with dichlorvos, and pyrethrins, against, | Philonthus flavolimbatus in, in cattle dung 220 |
| terminalis, Laccophilus | Rhipicephalus sanguineus 2595 | Polistes spp. in 2194 |
| terraenovae, Phormia (Protophormia) | with fenitrothion, against, Blattella | Psorophora columbiae in 2118 |
| terraenovae, Protophormia (see Phormia | germanica, in restaurants 749 | in rice-fields 1094 |
| terraenovae) | Tetramorium bicarinatum | Psoroptes ovis in, on cattle 414 |
| Terrestrial ecosystems, Culicidae in, role of 2756 | in Canada 2204 in hothouses, in Manitoba 2204 | Tabanus spp. in 1164 on cattle 630 |
| territans, Culex | Tetramorium guineense auct. (see T. | T. nigrovittatus in 1166 |
| tescorum, Simulium | bicarinatum) | Triatominae in, in Neotoma dens 66 |
| tesquorum, Ceratophyllus (see Citellophilus | Tetramorium simillimum | TF-302 (see Crufomate) |
| tesquorum) | in Canada 2204 | TH-6040 (see Diflubenzuron) |
| tesquorum, Citellophilus (Ceratophyllus) Testosterone ((17β)-17-hydroxyandrost-4-en- | in hothouses, in Manitoba 2204 Tetranactin | Thailand Anopheles spp. in 2799 |
| 3-one) | acaricidal activity of 3248 | A. barbirostris in 1638 |
| in cattle, increasing attractiveness to | chemical properties of 3248 | Culicidae in, natural enemies of 1606, |
| Haematobia irritans 867 | insecticidal activity of 3248 | 1607 |
| testudinarium, Amblyomma | physical properties of 3248 | Dermatophagoides pteronyssinus in, on |
| Tetrachlorvinphos ((<i>Z</i>)-2-chloro-1-(2,4,5-trichlorophenyl)ethenyl dimethyl | Tetrastichus, preyed on by, Holcocephala fusca, in Virginia 1553 | man 2645 Echinonyssus distinctitarsus in 2235 |
| phosphate) | Tetrastichus asthenogmus | Glycyphagidae in 3219 |
| against | in India 1268 | malaria in 2799 |
| Boophilus microplus, on grasses 660 | parasitised by, Tetrastichus spp., in India | mites in, on small mammals 3230 |
| Glossina fuscipes 2465 | 1268 | Muscidae in 1731 |
| G. palpalis 2465 G. tachinoides 2465 | parasitising, <i>Periplaneta</i> spp., in India 1268 | Myobiidae in, on bat 1773 Sarcophagidae in 3143 |
| Haematobia irritans, on cattle 630, | Tetrastichus hagenowii | Sciurochirus thailandiae in, on |
| 3168 | in India 1268 | Callosciurus 280 |
| Musca domestica, in cattle sheds 2515 | parasitised by, Tetrastichus spp., in India | Tabanidae in 1142 |
| Tabanus spp., on cattle 630 | 1268 | thailandensis, Pteracarus pusillus |
| in cattle ear tags 630, 3168 in cattle sheds, persistence of 2515 | parasitising, <i>Periplaneta</i> spp., in India 1268 | thailandiae, Sciurochirus thailandicus, Tupaiopus |
| in pastures, persistence of 660 | Tetrastichus miser | thalassius, Culex |
| resistance to, in | group of | Thaptomys, Polygenis frustratus on, in |
| Musca domestica, role of glutathione S- | hyperparasitising, Periplaneta spp., in | Brazil 771 |
| transferase in 1392 | India 1268 | Thaumastocera cervaria |
| Ornithonyssus sylviarum, in USA 421 Tetracycline | parasitising Tetrastichus asthenogmus, in India | descriptions of 2841 in Central African Republic 2841 |
| against | 1268 | Thaumatomyia notata |
| Ehrlichia canis | T. hagenowii, in India 1268 | biology of 1141 |
| in Canis lupus 2591 | Tetrigidae, in Fennoscandia 51 | in UK 1141 |
| in dog 2591 in Aedes polynesiensis, killing | Tetrodotoxin , in <i>Periplaneta americana</i> , blocking of axonal sodium channels by | Thaumetopoea pityocampa in Greece 2895 |
| Wolbachieae 2803 | 1514 | on man, urticaria caused by 2895 |
| Tetradecanamine, N,N-dimethyl-, against, | Tettigoniidae, in Fennoscandia 51 | on Pinus, in Greece 2895 |
| Psoroptes cuniculi, on rabbit 1218 | Tettnang virus | theileri, Culex |
| Tetradecanoic acid | characterization of 2573 | Theileria |
| in Aedes aegypti hemolymph, effects of Mermithid parasites on 2820 | Aedes vexans, in Czechoslovakia 2119 | book 2223 development in 255, 1432 |
| in Aedes triseriatus, toxicity of 522 | Hyalomma dromedarii, in Sudan 2573 | in |
| in Cladophora glomerata 522 | Ixodes ricinus, in West Germany 2573 | cattle |
| in Tyrophagus putrescentiae, | texana, Solenopsis | in South Korea 2225 |
| incorporation of 1,3-butanediol into 1975 | texanus, Geomydoecus texanus, Ixodes | in Zimbabwe 654 Haemaphysalis longicornis, in South |
| Tetrahymena | Texas | Korea 2225 |
| in | Aedes atlanticus in 1633 | vectors of 2223 |
| Anopheles sinensis, in South Korea | A. grossbecki in 2399 | Theileria annulata |
| 2357 | A. sollicitans in 1315 | in cottle |
| Culex pipiens, in South Korea 2357 Tetrameres mohtedai | A. tormentor in 1633 Ammotragus lervia in, arthropod parasites | cattle immunization against 2617, 3198 |
| in | of 2264 | infectivity of 1183 |
| fowl, infectivity of 2663 | Blatta lateralis in, in buildings 3006 | Hyalomma anatolicum, transmission of |
| Porcellio laevis, development of 2663 | Boophilus annulatus in, on cattle 2553 | 1183, 2617 |
| Tetramethrin ((1,3,4,5,6,7-hexahydro-1,3-dioxo-2H-isoindol-2-yl)methyl 2 2- | B. microplus in, on cattle 2553 | vectors of, biology of 2549 Theileria mutans, vectors of 2132 |
| dioxo-2 <i>H</i> -isoindol-2-yl)methyl 2,2- dimethyl-3-(2-methyl-1- | carrion in, arthropods in 452 Cochliomyia hominivorax in 1710, 3146 | Theileria mutans, vectors of 2132 Theileria ovis |
| propenyl)cyclopropanecarboxylate) | natural enemies of 2857 | in |
| acaricidal activity of 246 | on cattle 1399 | Haemaphysalis bispinosa, not |
| against 1225 | C. macellaria in 1710 | transmitted 3188 |
| Aedes spp. 1225 A. cantans 1642 | Culex quinquefasciatus in, in drainage channels 3060 | Rhipicephalus evertsi, development of 2627 |
| | | |

1976

Ixodes holocyclus

Latrodectus tredecimguttatus

Leiurus quinquestriatus 683, 949

methyl-

in Boophilus microplus

chloromethiuron metabolite 2599

Theileria ovis contd. Thiourea, N-(4-chloro-2-methylphenyl)-N'-Tityus trivittatus fasciolatus, cleaning in contd. methyl- contd. behaviour in 680 Rhinicephalus contd. in Boophilus microplus contd. TMA (see Methanaminium, N.N.N-R. haemaphysaloides, transmission of toxicity of 2599 trimethyl-) 3188 thirouxi. Haematobia tobetsuense. Simulium Theileria parva a-Tocopherol, in Culex pipiens diet, as Thogoto virus, in, Ixodoidea, in Italy 2967 tholozani. Ornithodoros antioxidant for arachidonic acid 1906 in Thomasomys, Polygenis frustratus on, in Togaviridae, vectors of 2961 cattle, infectivity of 2221 Rhipicephalus appendiculatus heat-induced development of 2221 transmission of 2950 Brazil 771 Togo Thomomys bottae onchocerciasis control in 1109, 1110 Simulium spp. in, nematodes in 2144 Geomydoecus chihuahuae on, in Arizona vectors of, effects of weather on 2955

Theileria sergenti 2225 togoi, Aedes G. fulvi on, in Arizona 1841 Tokelau Islands, Sarcoptes scabiei in, on Theileria velifera, in, Amblyomma variegatum, development of 1197 Thomomys umbrinus man Geomydoecus chihuahuae on, in Mexico Tokudaia oshimensis, Polyplax spinulosa on, Thelastoma aligarhica 1841 in Japan 708 in, Periplaneta americana, in Uttar Pradesh 2050 G. pattoni on, in Mexico 1841 thoracicus, Neotrichodectes tolucae, Geomydoecus Tolypocladium Tolypocladium
in, Aedes sierrensis, in California 1864
taxonomy of, misidentified as Beauveria
tenella, in California 1864
Tolypocladium cylindrosporum 1864
Tomato (Lycopersicon esculentum)
repellent activity of extracts of 2262 Thrips, wing-beat frequency of, measuring of Thelazia gulosa Thrush, song (see Turdus philomelos)
thummi, Chironomus
Thuricide 90T (see Bacillus thuringiensis
var. thuringiensis)
Thymidine kinase (see Kinase
(phosphorylating), thymidine)
5'-Thymidylic acid, in Culex pipiens diet, cattle, in Massachusetts 1822 Musca autumnalis, in Massachusetts
1822 tomentosa, Frontopsylla Thelazia lacrymalis Tonate virus in horse, development of 3175 Musca autumnalis, development of requirement for 133 Culex portesi, in Suriname C. taeniopus, in Suriname 544 Thymol (see Phenol, 5-methyl-2-(1methylethyl)-)
tibiamaculata, Triatoma Thelazia rhodesi, in, Musca larvipara, in Culicidae, in French Guiana 2732 Uzbekistan Tonga, Musca domestica in, natural enemies of 2375 Thelazia skrjabini Tick (see Ixodoidea) Tick-borne encephalitis (see Encephalitis. Topomyia rausai cattle, in Massachusetts 1822
Musca autumnalis, in Massachusetts sp. nov., description of 3096 in Philippines 3096 in bamboo internodes, in Philippines tick-borne) Tick infestations 1822 in Asian buffalo 268, 646, 1010, 1203, 2602 Thelohania fibrata 3096 in, Simulium ornatum, in USSR 1105 in Bos indicus × B. taurus 252, 261, tormentor, Aedes sporogony in, effects of temperature on 1194, 1201 torrentium, Culex 1194, 1201
in camel 268
in cattle 261, 268, 645, 653, 654, 655,
719, 1180, 1182, 1187, 1193, 1194,
1199, 1201, 1203, 1426, 1427, 1436,
1486, 1487, 1752, 1761, 1985, 1992,
1994, 2015, 2217, 2225, 2278, 2296,
2311, 2461, 2462, 2546, 2547, 2549,
2552, 2553, 2602, 2625, 2677, 2678,
2679, 2680, 2681, 2907, 2911, 3197, Tortoise houses, Blattella germanica in, in East Germany 2060 towadensis, Toxorhynchites Thelohania opacita (see Amblyospora opacita) opacita)
Themira, in British Isles 2184
Theobroma cacao (see Cacao)
Theophylline (see 1H-Purine-2,6-dione, 3,7-dihydro-1,3-dimethyl-)
Theridiidae, preyed on by, Chalybion californicum, in Oklahoma 2025 Towhee, rufous-sided (see Pipilo erythrophthalmus)

Toxaphene (chlorinated camphenes containing 67 to 69% chlorine) against Amblyomma lepidum 1999 A. variegatum 1999 Panstrongylus megistus Thiamin, in rat diet, not affecting ticks 410 in deer Thioacetamide (see Ethanethioamide) Thiocyanic acid 48, 260, 268, 2591, 2594, 2595, Psoroptes cuniculi 2614, 2623, 2630, 2912, 3195 in domestic animals 457, 1262, 2017 2-(2-butoxyethoxy)ethyl ester in cattle dips 284 in sheep dips 284 on rabbit 1218 P. ovis 668 on cattle 414, 1452
Rhipicephalus evertsi 1179
components of 693
formulations of, slow-release 2336 in donkey 268 in fowl 640, 1177, 2207, 2227, 2585, against Psoroptes ovis 2903 2903 in goat 268, 2001 in guinea-pig 408, 1180, 2546, 2620 in horse 268, 1436 in livestock 2045, 2046 in man 260, 457, 463, 1993, 2279, 2594, on cattle 284 on sheep 284 sodium salt, in *Musca domestica*, effects in cattle excretion in milk of poisoning by 3252 in cattle milk, residues of 3206 on secretion by Malpighian tubules of in dog, poisoning by 3252, 3253 in Periplaneta americana Thiodicarbonic diamide ([(H2N)C(S)]2S), 2906, 3201 in mink 12: in pig 2207 tetraethyl-1256 ATPase inhibition by 3002 against in pige 2207
in pigeon 1181, 3211
in poultry 2017, 3193
in rabbit 1479, 1494, 3194, 3205
in sheep 268, 1776, 1993, 2000, 2044, 2217, 2278, 2571, 2911
in turker 205 against
Otodectes cynotis
on cat 1210
on dog 1210

Thioperoxydicarbonic acid ([(HO)C(S)]₂S₂),
diethyl ester (see Dixanthogen)

Thiotepa (1,1',1"-phosphinothioylidynetris[aeffects on ion movements in nervous system of 3000 effects on ventral nerve cord of 484 resistance to, in Amblyomma variegatum
in Kenya 644
in Tanzania 1999
Boophilus decoloratus, in Kenya 644 in turkeys 925 in zebu 1193, 1201, 1425, 2907 Tick paralysis 2577 ziridine]) handling precautions for 789 in Aedes aegypti, effects on mating competitiveness of 789, 1893 in fowl, caused by Argas persicus Haemaphysalis leachii, in Kenya 644 in man 3200 Hyalomma marginatum, in Kenya 644 in *Urocyon cinereoargenteus* 2006 mechanisms of 2211 sterilant for Ixodidae Aedes aegypti 81, 789, 1041, 1893 Anopheles atroparvus 1041 Culex pipiens 1041 in South Africa 2016 Tigal (see Lindane) in southern Africa 2551 Rhipicephalus spp., in Kenya 644 R. evertsi, in Kenya 1179 tigrina, Coenosia Tiguvon (see Fenthion) Thiourea Tilapia, endosulfan in, toxicity of 1385

Tilandsia utriculata, Wyeomyia vanduzeei
in axils of, in Florida 1055 with chlorpyrifos, against, Rhipicephalus sanguineus 2614 antifeedant for, Aedes aegypti, on guineapig 1655 in *Chrysomya megacephala*, effects on ovariole DNA of 2527 Toxins Tin cans algae 1871 Parasarcophaga ruficornis, effects on Aedes albopictus in, in Japan Androctonus australis 292, 2659 RNA synthesis in ovarioles of 878 A. riversi in, in Japan 819 Anemonia 2659 sterilant for, Chrysomya megacephala titillans, Haematobia thirouxi Bacillus sphaericus 1087, 1088 B. thuringiensis 2459 1397 titillans, Lyperosia (see Haematobia thirouxi Thiourea, N'-(4-chloro-2-methylphenyl)-N,N-dimethyl- (see Chloromethiuron)
Thiourea, N-(4-chloro-2-methylphenyl)-N'titillans)
Tityus bahiensis
in Brazil 963 Centruroides elegans 681 C. noxius 3238 Condilactis 1515

males of, size of 963

Tityus serrulatus, venom of 290, 966, 2988,

| Daojeet Maen | | 55 |
|--|--|--|
| Toxins contd. | Transferase, glutathione S- | Tree holes contd. |
| Paederus fuscipes 711 | in Musca domestica | Aedes contd. |
| Tityus serrulatus 966 | role in diflubenzuron resistance of 903 | A. riversi in, in Japan 819 |
| conference 1257 Toxoplasma | role in tetrachlorvinphos resistance of 1392 | A. sierrensis in, in California 88, 164 A. triseriatus in, in Indiana 80 |
| in | Transpermethrin ((3-phenoxyphenyl)methyl | arthropods in, in Spain 1490 |
| Atylotus fulvus, persistence of 2528 | (1RS-trans)-3-(2,2-dichloroethenyl)-2,2- | Ceratopogonidae in, in Spain 1484 |
| Hybomitra bimaculata, persistence of | dimethylcyclopropanecarboxylate) | Eretmapodites subsimplicipes in 3058 |
| 2528 H. lundbecki, persistence of 2528 | in <i>Periplaneta americana</i> metabolism of 487 | mosquito control in, by closure 158 Toxorhynchites towadensis in, in |
| Toxoplasma gondii, in, Ixodes ricinus, | penetration of 487 | Hokkaido 2740 |
| transmission of 1430 | in Spodoptera littoralis | Trehalase, in Panstrongylus megistus |
| Toxorhynchites Coelomomyces spp. in, in Thailand 1607 | metabolism of 487 penetration of 487 | nymphs, properties of 489 |
| in American Samoa 1634 | Trap | Trehalose (see α-D-Glucopyranoside, α-D-glucopyranosyl) |
| in Indonesia 2090 | for | Trematoda 2414 |
| in bamboo internodes, in Philippines 3096 | Blatta orientalis 481 Chloropidae 231 | Dicrocoelium dendriticum 442 |
| preying on, Aedes aegypti 1063 | Glossina palpalis 572 | Fasciola hepatica 2293 Tretamine (2,4,6-tris(1-aziridinyl)-1,3,5- |
| taxonomy of 3035 | Vespula squamosa 1176 | triazine) |
| characters for 352 Toxorhynchites amboinensis | Trap, baffle, for, Culicoides variipennis | sterilant for, Aedes aegypti 2422 |
| biology of 2783 | Trap, bait | triangularis, Hydrophilus triangularus, Minyctenopsyllus |
| Brugia malayi in, development of 2735 | for | trianguliceps, Ixodes |
| B. pahangi in, development of 2735 | Ceratopogonidae 180, 1658 | triannulatus, Anopheles |
| dengue virus in detecting of 2381 | Diptera 2526 Trap, Bennett, for, Simuliidae 365 | Triatoma taxonomy of 1276 |
| identifying of 2381 | Trap, biconical | Trypanosoma cruzi in, other flagellates |
| feeding behaviour in 2783 | description of 202, 1935, 3131 | confused with 1019 |
| habitats of 2784 in American Samoa 2784 | for Glassina 202 367 1035 2831 3128 | Triatoma bahiensis, taxonomy of, synonym of T. lenti 1276 |
| preying on | Glossina 202, 367, 1935, 2831, 3128, 3129, 3130, 3131 | Triatoma barberi |
| Aedes aegypti, and biological control | G. palpalis 2834 | blood-meals in, identifying of 2081 |
| using, in French Polynesia 2784 | Trap, electric back-pack, for, Glossina 367 | descriptions of 1276 |
| A. polynesiensis, and biological control using, in French Polynesia 2784 | Trap, electric grid | hosts of 3023 in Mexico 3023 |
| rearing of, techniques for 2783 | Cochliomyia 629 | in dwellings, in Mexico 3023 |
| Wolbachieae in, not found 2803 | Sarcophagidae 629 | Trypanosoma cruzi in |
| Wuchereria bancrofti in, development of 2735 | Trap, electrocutor, for, Musca domestica 2875 | in Mexico 3023 transmission of 1276 |
| Toxorhynchites aurifluus, Wuchereria | Trap, electrocutor grid time-sorting, for, | xenodiagnosis of 1278 |
| bancrofti in, development of 2735 | Cochliomyia 1710 | Triatoma brasiliensis |
| Toxorhynchites brevipalpis abdominal setae in 3050 | Trap, emergence description of 5 | descriptions of 1276 |
| preying on, Aedes polynesiensis 827 | for | in Brazil 2077 rearing of, techniques for 1668 |
| rearing of, diets for 827 | aquatic insects 5, 438 | Trypanosoma cruzi in, transmission of |
| Wolbachieae in, not found 2803 | Ceratopogonidae 1658 | 1276 |
| Toxorhynchites rutilus rutilus dispersal of, effects of laboratory rearing | Culicidae 142 Trap, Manitoba | Triatoma bruchi, taxonomy of, synonym of T. rubrovaria 1276 |
| on 1579 | descriptions of 1409 | Triatoma carrioni |
| insecticides in, toxicity of 801 | for, Tabanidae 892, 1409 | descriptions of 1276 |
| mortality in, effects of laboratory rearing on 1579 | Trap, mosquito-net, for, Tabanidae 2486 Trap, odour-baited, for, Glossina 368 | Trypanosoma cruzi in, transmission of 1276 |
| oviposition in, effects of laboratory rearing | Trap, oviposition | Triatoma delpontei |
| on 1579 | description of 3034 | in Argentina 493 |
| preying on Aedes aegypti 1613 | for Aedes spp. 1052, 3043 | in Myopsitta monaccha nests, in Argentina 493 |
| and biological control using, in | A. aegypti 1063, 1624, 3034 | Triatoma dimidiata |
| Louisiana 1346 | A. albopictus 3034 | control of, insecticides for 74 |
| rearing of, techniques for 1613 Toxorhynchites rutilus septentrionalis | A. sierrensis 164 Trap, paddle, for, Ceratopogonidae 180 | descriptions of 1276 in El Salvador 74 |
| development in, effects of photoperiod and | Trap, pitfall | in Mexico 1278 |
| temperature on 781 | for | in dwellings |
| dormancy in, effects of photoperiod and temperature on 781 | coprophagous insects 1813 necrophagous insects 1813 | in El Salvador 74 in Mexico 1278 |
| predation by, effects of photoperiod and | Trap, pyramid sticky, for, Musca autumnalis | Trypanosoma cruzi in |
| temperature on 781 | 2499 | in El Salvador 74 |
| Toxorhynchites splendens | Trap, sticky | transmission of 1276 |
| in Thailand 1606 Trypanosomatidae in, in Thailand 1606 | for <i>Musca domestica</i> 870 | Triatoma eratyrusiformis descriptions of 1276 |
| Toxorhynchites towadensis | Phlebotominae 1662 | taxonomy of, Triatoma ninoi as synonym |
| in Japan 2740 | Stomoxys calcitrans 870, 888 | of 1276 |
| in tree holes, in Hokkaido 2740 Toxorhynchitinae, taxonomy of, characters | Trap, suction for, Culicidae 1331, 3046, 3059 | Triatoma guasayana descriptions of 1276 |
| for 352 | mosquito visual responses to 3059 | Trypanosoma cruzi in, transmission of |
| Toxorhynchitini, taxonomy of 2100 | Trap, vehicle-mounted | 1276 |
| Tracheomyia macropi in Australia 2860 | description of 552 for, Ceratopogonidae 552 | Triatoma infestans behaviour in 492 |
| on Macropus rufus, in New South Wales | Trap, wind-oriented | Blastocrithidia triatomae in 1016 |
| 2860 | for | cell cultures from 2976 |
| Tragelaphus scriptus Glossina fuscipes on, in Uganda 2830 | Cochliomyia 629 Sarcophagidae 629 | chitin in, synthesis of 491 chromatin in 1844 |
| G. pallidipes on, in Uganda 2830, 3133 | trapidoi, Lutzomyia | chromosomes in 1017 |
| Trypanosoma spp. in, in Uganda 2830 | Trash cans (see Dustbins) | compound eyes in, acetylcholinesterase |
| Tramea lacerata in USA 2857 | tredecimata, Cnephia (Metacnephia) tredecimata, Metacnephia (see Cnephia | inhibitor in 2079 control of, insecticides for 2336, 2337 |
| preying on, Cochliomyia hominivorax, in | tredecimata, Wetachepma (see Chepma tredecimata) | descriptions of 1276 |
| Texas 2857 | tredecimguttatus, Latrodectus | egg production in |
| Tranquilizing agents, in rabbit, effects on Glossina palpalis of 1121 | Tree holes Aedes spp. in, in Hokkaido 2740 | effects of blood-feeding on 326 effects of JH on 326 |
| Transaminase, glutamic-oxaloacetic (see | A. albopictus in, in Japan 819 | rhythm of 326 |
| Aminotransferase, aspartate) | A. geniculatus in, in England 1565 | enzymes in 1541 |
| transcaucasicus, Ischnopsyllus | A. hendersoni in, in Florida 1623 | excreta of, bacteria in 2704 |

| Triatoma infestans contd. | Triatoma rubida | Trichlorphon (dimethyl (2,2,2-trichloro-1- |
|--|--|--|
| head in 324 in Argentina 493 | descriptions of 1276 Trypanosoma cruzi in, transmission of | hydroxyethyl)phosphonate) against |
| in Brazil 67, 961, 2077, 2078, 2337, 2707 | 1276 | Aedes spp. 1225 |
| in Chile 2071 | Triatoma rubida uhleri | Argas persicus 2675 |
| in Coryphistera alaudina nests, in Argentina 493 | in USA 66 in Neotoma dens, in USA 66 | Blattella germanica 1225, 3004 Cephenemyia trompe, on reindeer |
| in dwellings | Triatoma rubrofasciata | 1124 |
| assessing infestations of 2071 | descriptions of 1276 | Cheyletiella parasitivorax, on rabbit |
| effects of wall plaster on 2338 in Brazil 2077, 2707 | Trypanosoma cruzi in, transmission of 1276 | 418 <i>C. yasguri,</i> on dog 1780 |
| in Myopsitta monaccha nests, in | Triatoma rubrovaria | Cimex lectularius 1225, 1242, 2675 |
| Argentina 493 Malpighian tubules in 1536 | descriptions of 1276 taxonomy of, <i>Triatoma bruchi</i> as synonym | Dermanyssus gallinae 2675 |
| mid-gut in 1013 | of 1276 | Diptera in pig dung 376 |
| on man, in Brazil 961 | Triatoma sordida | on sheep 2529 |
| parasitised by Proanastatus excavatus, in Argentina | biology of 1277 colony development in 2069, 2070 | Gasterophilidae, on horse 3140 |
| 493 | descriptions of 1276 | Gasterophilus spp., on horse 3141 G. intestinalis, on horse 2476, 2477 |
| Telenomus fariai 495 in Argentina 493 | dispersal of 2069, 2070 habitats of 1015 | G. nasalis, on horse 2477 |
| rearing of, techniques for 1668 | in Brazil 961, 1015, 2069, 2070, 2077, | Haematopinus suis, on pig 2334 |
| somatic ploidy in, determination of 1538 | 2078, 2707 in dwyllings in Broad 2707 | Hyalomma spp. 2605 on sheep 254 |
| Trypanosoma cruzi in 1016 development of 2339 | in dwellings, in Brazil 2707 in fowl houses, in Brazil 1015 | Hypoderma spp., on cattle 861 |
| in Brazil 2077, 2078, 2707 | in poultry houses, in Brazil 2069, 2070 | H. bovis, on cattle 863, 1123, 1936, |
| survival after death of 2080 transmission of 1276 | on man, in Brazil 961 Trypanosoma cruzi in | 3140 Lucilia sericata, on dog 2502 |
| xenodiagnosis of 2075, 2708 | in Brazil 2077, 2078, 2707 | Menacanthus stramineus, on fowl |
| Triatoma lenti | transmission of 1276 Triatoma tibiamaculata | 1532 Menopon gallinae, on fowl 1532 |
| descriptions of 1276 taxonomy of | in Brazil 2078, 2709 | Musca domestica 1225 |
| Triatoma bahiensis as synonym of | Trypanosoma cruzi in, in Brazil 2078, | Oedemagena tarandi, on reindeer 1124 |
| 1276 T. pessoai as synonym of 1276 | 2709 Triatominae | Ornithonyssus bacoti, on mouse 286 pests of livestock 2281 |
| Triatoma leopoldi | agriculture as affecting 1015 | Rhinoestrus purpureus, on horse 3141 |
| descriptions of 1276 | behaviour in, review 492 control of | Rhipicephalus spp., on sheep 254 R. bursa 2605 |
| taxonomy of, <i>Triatoma novaeguineae</i> as synonym of 1276 | eliminating of breeding places for 75 | R. sanguineus 2614 |
| Triatoma maculata | insecticides for 1278 | Solenopsis invicta 1969 |
| descriptions of 1276 in Venezuela 2706 | in Venezuela 1539 in dwellings | Trixacarus caviae, on guinea-pig 1799 Wohlfahrtia spp., on cattle 3153 |
| in fowl houses, in Venezuela 2706 | in Brazil 75 | determination of 2948 |
| mid-gut in 1013 Trypanosoma cruzi in, transmission of | malaria control as affecting 64 on man, bites by, review 1011 | formulations of 2476 in bait traps for Diptera 2526 |
| 1276 | rearing of, organisms hindering 1019 | in Boophilus microplus, effects on |
| Triatoma melanocephala | taxonomy of 1276 | oviposition of 2598 |
| in Brazil 2078 Trypanosoma cruzi in, in Brazil 2078 | Trypanosoma cruzi in, in Western Hemisphere 43 | in fowl, toxicity of 2256 resistance to, in |
| Triatoma ninoi, taxonomy of, synonym of T. | Triatomini, taxonomy of 1276 | Hyalomma anatolicum |
| eratyrusiformis 1276 Triatoma novaeguineae, taxonomy of, | 1,3,5,2,4,6-Triazatriphosphorine, 2,2,4,4,6,6- hexakis(1-aziridinyl)-2,2,4,4,6,6- | and cross-resistance 2593 development of 2220 |
| synonym of T. leopoldi 1276 | hexahydro- (see Apholate) | H. detritum 2593 |
| Triatoma pallidipennis (see also Triatoma | 1,3,5-Triazine-2,4-diamine, 6-azido-N-cyclopropyl-N'-ethyl- | Musca domestica 212 |
| phyllosoma pallidipennis) descriptions of 1276 | against | in East Germany 3154 in West Germany 2504, 3160, 3167 |
| Trypanosoma cruzi in, transmission of | Culex spp., in pig-waste lagoons 1070 | mechanisms of 882 |
| 1276 Triatoma patagonica | C. quinquefasciatus 2744 Culiseta incidens 2744 | selection for 882 Rhipicephalus bursa, development of |
| descriptions of 1276 | Diptera, in fowl dung 2494 | 2220 |
| Trypanosoma cruzi in, transmission of 1276 | 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl- N'-(1-methylethyl)- (see Atrazine) | with febantel 2477 with lindane |
| Triatoma pessoai, taxonomy of, synonym of | 1,3,5-Triazine-2,4,6-triamine, N-cyclopropyl- | against |
| T. lenti 1276 | against | Blattella germanica 1242 |
| Triatoma phyllosoma descriptions of 1276 | Lucilia cuprina 2866 on sheep 2506, 3165 | Cimex lectularius 1242 with mebendazole 2476 |
| Trypanosoma cruzi in, transmission of | in dog, toxicity of 3165 | esters with fatty acids, against, Solenopsis |
| 1276 Triatoma phyllosoma mazzotti, blood-meals | in sheep, toxicity of 3165 properties of 3165 | invicta 1969 Trichodectes canis |
| in, identifying of 2081 | 1,3,5-Triazine, 2,4,6-tris(1-aziridinyl)- (see | in USA 57, 1530 |
| Triatoma phyllosoma pallidipennis (see also Triatoma pallidipennis) | Tretamine) Tribeč virus | on Canis latrans × C. rufus, in Texas 1530 |
| parasitised by, Telenomus fariai 495, | in | Trichodectes octomaculatus |
| 1014 | Ixodes ricinus | in USA 57, 1256, 1527, 1530 |
| Triatoma platensis in Argentina 493 | in Italy 263 transmission of 922 | on Procyon lotor in Indiana 57, 1256, 1527 |
| in Coryphistera alaudina nests, in | Ixodoidea, in Italy 2967 | in Texas 1530 |
| Argentina 493 in <i>Pseudoseisura lophotes</i> nests, in | man, antibodies to 2600 Tribolium castaneum | Trichodectidae on domestic animals, in Spain 448 |
| Argentina 493 | control of, insecticides for 2319 | on mammals, in Texas 1530 |
| Triatoma protracta protracta | Nosema whitei in, infectivity of 612 | Trichoecius apodemi |
| in USA 66, 2705 in dwellings, in USA 2705 | in, infectivity of 637 | in Spain 1478 on small mammals, in Spain 1478 |
| in Neotoma dens, in USA 66 | Tricarboxylic acid cycle | Trichoecius tenax |
| Trypanosoma cruzi in, in USA 2705 Triatoma protracta woodi | in <i>Musca domestica</i> , during cold stress 2170 | in Spain 1478 on small mammals, in Spain 1478 |
| in USA 66 | in Phormia terraenovae, during cold stress | Tricholipeurus lipeuroides |
| in Neotoma dens, in USA 66 Triatoma pseudomaculata | 2170 triceratops, Onthophagus | in USA 57, 1527, 1530 on <i>Odocoileus virginianus</i> |
| descriptions of 1276 | Trichlorfon (see Trichlorphon) | in Indiana 57, 1527 |
| in Brazil 2077 | Trichlormetaphos (see Phosphorothioic acid, | in Texas 1530 |
| Trypanosoma cruzi in, transmission of 1276 | O-ethyl O-methyl O-(2,4,5-trichlorophenyl) ester) | Tricholipeurus parallelus in USA 57, 1527, 1530 |
| | | |

| • | | |
|---|--|---|
| Tricholipeurus parallelus contd. | Trombicula scutellaris (see | Trypanosoma brucei contd. |
| | | |
| on Odocoileus virginianus | Leptotrombidium scutellare) | vectors of 2829 |
| in Indiana 57, 1527 | Trombicula striatum (see Euschoengastia | Trypanosoma congolense |
| in Texas 1530 | striata) | control of, antiprotozoals for 1933 |
| | | · · · · · · · · · · · · · · · · · · · |
| Trichophyton mentagrophytes, in, dog, | Trombicula yui (see Leptotrombidium yui) | in |
| lesions caused by 2246 | Trombiculidae | game animals, in Uganda 2830 |
| Trichophyton verrucosum | | |
| | habitat change in 1783 | Glossina spp., in Uganda 2830 |
| in | in Afghanistan 2993 | G. morsitans |
| cattle | in Florida 2240 | |
| | | development of 2470 |
| in Poland 758 | in Kyushu 2925 | effects on feeding behaviour of 199 |
| role of lice in transmission of 758 | in Nansei Islands 720 | effects on labrum mechanoreceptors |
| | | |
| Trichoplusia ni | in USSR 288 | of 3087 |
| control of, growth regulators for 1393 | Korean hemorrhagic fever, virus in, | in proboscis 3088 |
| | transmission of 994 | |
| enzymes in 1393 | | infection through membranes with |
| Trichoprosopon, taxonomy of 2764 | on mammals, in Papua New Guinea | 2468 |
| | 1772 | |
| Trichoptera | on mouse-like rodents, in Byelorussia | localisation of 199 |
| book 2994 | | transmission of 1933 |
| filter-feeding in 2300 | 639 | |
| | on small mammals | G. pallidipes |
| insecticides in, toxicity of 803 | in Maharashtra 929, 930 | in Kenya 1387 |
| Trichostrongylus colubriformis | | localisation of 3132 |
| | in West Malaysia 3217 | |
| in, sheep 19 | Trombiculindus alpinus (see | mouse, resistance to 1933 |
| preyed on by, Leptocera vagans 19 | Leptotrombidium alpinum) | Trypanosoma cruzi (see also Chagas' |
| | | |
| Tricladida | Trombiculindus guangdongensis (see | disease) |
| culture methods for 1657 | Leptotrombidium guangdongense) | control of, vector control for 75, 1539 |
| preying on | Trombidiformes | heterogeneity in 43 |
| | | |
| Culicidae 2126 | in Norway 2205 | hosts of 2829 |
| and biological control using, review | on bats, in Poland 2641 | in |
| | | |
| 1861 | on small mammals, in Poland 1497 | bat, in Brazil 1279 |
| 9-Tricosene, (Z)- (see Muscalure) | trompe, Cephenemyia | cat, in Brazil 2077 |
| tricoxalae, Schoengastia | tropica, Myodopsylla | Dasypus novemcinctus, in Brazil 2078 |
| | | |
| tricuspis, Rhipicephalus | tropicalis, Blomia | Dipetalogaster maxima |
| Tridecanamine, N,N-dimethyl-, against, | tropicalis, Lipeurus lawrensis (see | survival after death of 2080 |
| Psoroptes cuniculi, on rabbit 1218 | Numidilipeurus lawrensis tropicalis) | xenodiagnosis of 2075 |
| | | |
| tridentatus, Argas | tropicalis, Numidilipeurus lawrensis | dog, in Brazil 67, 2077 |
| trigeminus, Tabanus | Tropisternus lateralis | man |
| | in USA 100, 2804 | in Brazil 2077, 2078, 2707, 2709 |
| Trigona, in savanna woodland, effects of | | |
| endosulfan on 1385 | pesticides in, toxicity of 1854 | in Mexico 1278 |
| trima, Darna | preying on | mouse |
| | | |
| Trinidad and Tobago | Chironomidae, in California 100, 2804 | pathogenicity of 2074 |
| Aedes aegypti in 2131 | Crustacea, in California 100 | vaccination against 2074 |
| Culicoides phlebotomus in, on man 505 | Culex tarsalis, in California 100 | Panstrongylus geniculatus, in Brazil |
| | | |
| dengue in 167 | Tropocyclops prasinus | 2078 |
| Haemagogus spp. in, viruses in 2131 | in USA 2485 | P. megistus, in Brazil 68 |
| yellow fever in 2131 | preyed on by, Chaoborus astictopus, in | rat, in Brazil 2077 |
| | | |
| trinidadensis, Ooencyrtus | California 2485 | Rattus rattus, in Brazil 2078 |
| trinkae, Anopheles | trouessarti, Cheyletus | Reduviidae, other flagellates confused |
| Triose phosphate isomerase (see Isomerase, | truncata, Basilia | with 1019 |
| | | |
| triose phosphate) | truncata, Symphoromyia | Rhodnius pallescens, in Panama Canal |
| Triprene (S-ethyl (2E,4E)-11-methoxy- | truncatum, Hyaloma | Zone 21 |
| 3,7,11-trimethyl-2,4-dodecadienethioate) | truncatum, Simulium | |
| | | R. prolixus |
| in mouse cell lines, toxicity of 2033 | truncatus, Geomydoecus | in El Salvador 74 |
| Tripteroides | Trypamidium, in rabbit, effects on Glossina | xenodiagnosis of 1278 |
| | palpalis of 2835 | Triatoma spp., in Brazil 2078 |
| in Indonesia 2090 | | |
| in bamboo internodes, in Philippines | Trypanosoma | T. barberi |
| 3096 | control of 2150 | in Mexico 3023 |
| | | |
| tripus, Polygenis | vector control for 567 | xenodiagnosis of 1278 |
| triseriatus, Aedes | in | T. dimidiata, in El Salvador 74 |
| tristis, Aleochara | Glossina spp., transmission of 2950 | T. infestans 1016 |
| | | |
| tritaeniorhynchus, Culex | G. medicorum, in Upper Volta 2151 | development of 2339 |
| tritici, Pyemotes | Glossinidae 569 | in Brazil 2077, 2707 |
| Triticum aestivum (see Wheat) | goat, in Kenya 860 | survival after death of 2080 |
| | | |
| Triticum durum (see Wheat) | Ixodes ricinus, in Switzerland 412 | xenodiagnosis of 2075, 2708 |
| Triton X-100, in diazinon formulations, | man, in Congo 1116, 1932, 2836 | T. protracta, in USA 2705 |
| effects on insecticidal activity of 3244 | sheep, in Kenya 860 | T. sordida, in Brazil 2077, 2707 |
| | | T. tibiamaculata, in Brazil 2709 |
| 1-Tritriacontene, 13-methyl-, Stomoxys | | I DDIATOACHIAIA IN BEAZIL //U9 |
| calcitrans sex-pheromone component | vectors of, book 2985 | |
| 593 | | |
| | Trypanosoma brucei (see also Sleeping | Triatominae, in Western Hemisphere |
| | Trypanosoma brucei (see also Sleeping sickness) | Triatominae, in Western Hemisphere 43 |
| 9-Tritriacontene, (Z)-, Stomoxys calcitrans | Trypanosoma brucei (see also Sleeping | Triatominae, in Western Hemisphere 43 reservoirs of 2829 |
| 9-Tritriacontene, (Z)-, Stomoxys calcitrans | Trypanosoma brucei (see also Sleeping sickness) control of, vector control for 570 | Triatominae, in Western Hemisphere 43 |
| 9-Tritriacontene, (Z)-, Stomoxys calcitrans sex-pheromone component 593 | Trypanosoma brucei (see also Sleeping sickness) control of, vector control for 570 culture methods for 568, 2469 | Triatominae, in Western Hemisphere 43 reservoirs of 2829 vectors of 1276, 2829 |
| 9-Tritriacontene, (Z)-, Stomoxys calcitrans sex-pheromone component 593 Triturus, preying on, Culicidae 2126 | Trypanosoma brucei (see also Sleeping sickness) control of, vector control for 570 culture methods for 568, 2469 epidemiology of 1264 | Triatominae, in Western Hemisphere 43 reservoirs of 2829 vectors of 1276, 2829 zymodemes of 2078 |
| 9-Tritriacontene, (Z)-, Stomoxys calcitrans sex-pheromone component 593 | Trypanosoma brucei (see also Sleeping sickness) control of, vector control for 570 culture methods for 568, 2469 | Triatominae, in Western Hemisphere 43 reservoirs of 2829 vectors of 1276, 2829 |
| 9-Tritriacontene, (Z)-, Stomoxys calcitrans sex-pheromone component 593 Triturus, preying on, Culicidae 2126 trivittatus, Aedes | Trypanosoma brucei (see also Sleeping sickness) control of, vector control for 570 culture methods for 568, 2469 epidemiology of 1264 | Triatominae, in Western Hemisphere 43 reservoirs of 2829 vectors of 1276, 2829 zymodemes of 2078 Trypanosoma gambiense (see T. brucei) |
| 9-Tritriacontene, (Z)-, Stomoxys calcitrans sex-pheromone component 593 Triturus, preying on, Culicidae 2126 trivittatus, Aedes trivittatus, Tityus | Trypanosoma brucei (see also Sleeping sickness) control of, vector control for 570 culture methods for 568, 2469 epidemiology of 1264 hosts of 2829 in | Triatominae, in Western Hemisphere 43 reservoirs of 2829 vectors of 1276, 2829 zymodemes of 2078 Trypanosoma gambiense (see T. brucei) Trypanosoma rangeli |
| 9-Tritriacontene, (Z)-, Stomoxys calcitrans sex-pheromone component 593 Triturus, preying on, Culicidae 2126 trivittatus, Aedes trivittatus, Tityus Trivittatus virus | Trypanosoma brucei (see also Sleeping sickness) control of, vector control for 570 culture methods for 568, 2469 epidemiology of 1264 hosts of 2829 in Glossina austeni, effects on feeding | Triatominae, in Western Hemisphere 43 reservoirs of 2829 vectors of 1276, 2829 zymodemes of 2078 Trypanosoma gambiense (see T. brucei) Trypanosoma rangeli in |
| 9-Tritriacontene, (Z)-, Stomoxys calcitrans sex-pheromone component 593 Triturus, preying on, Culicidae 2126 trivittatus, Aedes trivittatus, Tityus Trivittatus virus in | Trypanosoma brucei (see also Sleeping sickness) control of, vector control for 570 culture methods for 568, 2469 epidemiology of 1264 hosts of 2829 in | Triatominae, in Western Hemisphere 43 reservoirs of 2829 vectors of 1276, 2829 zymodemes of 2078 Trypanosoma gambiense (see T. brucei) Trypanosoma rangeli |
| 9-Tritriacontene, (Z)-, Stomoxys calcitrans sex-pheromone component 593 Triturus, preying on, Culicidae 2126 trivittatus, Aedes trivittatus, Tityus Trivittatus virus in | Trypanosoma brucei (see also Sleeping sickness) control of, vector control for 570 culture methods for 568, 2469 epidemiology of 1264 hosts of 2829 in Glossina austeni, effects on feeding behaviour of 2152 | Triatominae, in Western Hemisphere 43 reservoirs of 2829 vectors of 1276, 2829 zymodemes of 2078 Trypanosoma gambiense (see T. brucei) Trypanosoma rangeli in dog, in Venezuela 3022 |
| 9-Tritriacontene, (Z)-, Stomoxys calcitrans sex-pheromone component 593 Triturus, preying on, Culicidae 2126 trivittatus, Aedes trivittatus, Tityus Trivittatus virus in Aedes dorsalis, replication of 1578 | Trypanosoma brucei (see also Sleeping sickness) control of, vector control for 570 culture methods for 568, 2469 epidemiology of 1264 hosts of 2829 in Glossina austeni, effects on feeding behaviour of 2152 G. longipalpis, transmission of 1379 | Triatominae, in Western Hemisphere 43 reservoirs of 2829 vectors of 1276, 2829 zymodemes of 2078 Trypanosoma gambiense (see T. brucei) Trypanosoma rangeli in dog, in Venezuela 3022 Lutzomyia sanguinaria, infectivity of |
| 9-Tritriacontene, (Z)-, Stomoxys calcitrans sex-pheromone component 593 Triturus, preying on, Culicidae 2126 trivittatus, Aedes trivittatus, Tityus Trivittatus virus in Aedes dorsalis, replication of 1578 A. triseriatus, in Nebraska 2380 | Trypanosoma brucei (see also Sleeping sickness) control of, vector control for 570 culture methods for 568, 2469 epidemiology of 1264 hosts of 2829 in Glossina austeni, effects on feeding behaviour of 2152 G. longipalpis, transmission of 1379 G. morsitans | Triatominae, in Western Hemisphere 43 reservoirs of 2829 vectors of 1276, 2829 zymodemes of 2078 Trypanosoma gambiense (see T. brucei) Trypanosoma rangeli in dog, in Venezuela 3022 Lutzomyia sanguinaria, infectivity of 2136 |
| 9-Tritriacontene, (Z)-, Stomoxys calcitrans sex-pheromone component 593 Triturus, preying on, Culicidae 2126 trivittatus, Aedes trivittatus, Tityus Trivittatus virus in Aedes dorsalis, replication of 1578 | Trypanosoma brucei (see also Sleeping sickness) control of, vector control for 570 culture methods for 568, 2469 epidemiology of 1264 hosts of 2829 in Glossina austeni, effects on feeding behaviour of 2152 G. longipalpis, transmission of 1379 | Triatominae, in Western Hemisphere 43 reservoirs of 2829 vectors of 1276, 2829 zymodemes of 2078 Trypanosoma gambiense (see T. brucei) Trypanosoma rangeli in dog, in Venezuela 3022 Lutzomyia sanguinaria, infectivity of |
| 9-Tritriacontene, (Z)-, Stomoxys calcitrans sex-pheromone component 593 Triturus, preying on, Culicidae 2126 trivittatus, Aedes trivittatus, Tityus Trivittatus virus in Aedes dorsalis, replication of 1578 A. triseriatus, in Nebraska 2380 Trixacarus caviae | Trypanosoma brucei (see also Sleeping sickness) control of, vector control for 570 culture methods for 568, 2469 epidemiology of 1264 hosts of 2829 in Glossina austeni, effects on feeding behaviour of 2152 G. longipalpis, transmission of 1379 G. morsitans effects on feeding behaviour of 2152 | Triatominae, in Western Hemisphere 43 reservoirs of 2829 vectors of 1276, 2829 zymodemes of 2078 Trypanosoma gambiense (see T. brucei) Trypanosoma rangeli in dog, in Venezuela 3022 Lutzomyia sanguinaria, infectivity of 2136 Rhodnius pallescens, in Panama Canal |
| 9-Tritriacontene, (Z)-, Stomoxys calcitrans sex-pheromone component 593 Triturus, preying on, Culicidae 2126 trivittatus, Aedes trivittatus, Tityus Trivittatus virus in Aedes dorsalis, replication of 1578 A. triseriatus, in Nebraska 2380 Trixacarus caviae control of, acaricides for 1799 | Trypanosoma brucei (see also Sleeping sickness) control of, vector control for 570 culture methods for 568, 2469 epidemiology of 1264 hosts of 2829 in Glossina austeni, effects on feeding behaviour of 2152 G. longipalpis, transmission of 1379 G. morsitans effects on feeding behaviour of 2152 effects on labrum mechanoreceptors | Triatominae, in Western Hemisphere 43 reservoirs of 2829 vectors of 1276, 2829 zymodemes of 2078 Trypanosoma gambiense (see T. brucei) Trypanosoma rangeli in dog, in Venezuela 3022 Lutzomyia sanguinaria, infectivity of 2136 Rhodnius pallescens, in Panama Canal Zone 21 |
| 9-Tritriacontene, (Z)-, Stomoxys calcitrans sex-pheromone component 593 Triturus, preying on, Culicidae 2126 trivittatus, Aedes trivittatus, Tityus Trivittatus virus in Aedes dorsalis, replication of 1578 A. triseriatus, in Nebraska 2380 Trixacarus caviae control of, acaricides for 1799 on guinea-pig, effects of 1799 | Trypanosoma brucei (see also Sleeping sickness) control of, vector control for 570 culture methods for 568, 2469 epidemiology of 1264 hosts of 2829 in Glossina austeni, effects on feeding behaviour of 2152 G. longipalpis, transmission of 1379 G. morsitans effects on feeding behaviour of 2152 effects on labrum mechanoreceptors of 3087 | Triatominae, in Western Hemisphere 43 reservoirs of 2829 vectors of 1276, 2829 zymodemes of 2078 Trypanosoma gambiense (see T. brucei) Trypanosoma rangeli in dog, in Venezuela 3022 Lutzomyia sanguinaria, infectivity of 2136 Rhodnius pallescens, in Panama Canal Zone 21 R. prolixus |
| 9-Tritriacontene, (Z)-, Stomoxys calcitrans sex-pheromone component 593 Triturus, preying on, Culicidae 2126 trivittatus, Aedes trivittatus, Tityus Trivittatus virus in Aedes dorsalis, replication of 1578 A. triseriatus, in Nebraska 2380 Trixacarus caviae control of, acaricides for 1799 | Trypanosoma brucei (see also Sleeping sickness) control of, vector control for 570 culture methods for 568, 2469 epidemiology of 1264 hosts of 2829 in Glossina austeni, effects on feeding behaviour of 2152 G. longipalpis, transmission of 1379 G. morsitans effects on feeding behaviour of 2152 effects on labrum mechanoreceptors | Triatominae, in Western Hemisphere 43 reservoirs of 2829 vectors of 1276, 2829 zymodemes of 2078 Trypanosoma gambiense (see T. brucei) Trypanosoma rangeli in dog, in Venezuela 3022 Lutzomyia sanguinaria, infectivity of 2136 Rhodnius pallescens, in Panama Canal Zone 21 |
| 9-Tritriacontene, (Z)-, Stomoxys calcitrans sex-pheromone component 593 Triturus, preying on, Culicidae 2126 trivittatus, Aedes trivittatus, Tityus Trivittatus virus in Aedes dorsalis, replication of 1578 A. triseriatus, in Nebraska 2380 Trixacarus caviae control of, acaricides for 1799 on guinea-pig, effects of 1799 on man, hypersensitivity to 1799 | Trypanosoma brucei (see also Sleeping sickness) control of, vector control for 570 culture methods for 568, 2469 epidemiology of 1264 hosts of 2829 in Glossina austeni, effects on feeding behaviour of 2152 G. longipalpis, transmission of 1379 G. morsitans effects on feeding behaviour of 2152 effects on labrum mechanoreceptors of 3087 infection through membranes with | Triatominae, in Western Hemisphere 43 reservoirs of 2829 vectors of 1276, 2829 zymodemes of 2078 Trypanosoma gambiense (see T. brucei) Trypanosoma rangeli in dog, in Venezuela 3022 Lutzomyia sanguinaria, infectivity of 2136 Rhodnius pallescens, in Panama Canal Zone 21 R. prolixus in El Salvador 74 |
| 9-Tritriacontene, (Z)-, Stomoxys calcitrans sex-pheromone component 593 Triturus, preying on, Culicidae 2126 trivittatus, Aedes trivittatus, Tityus Trivittatus virus in Aedes dorsalis, replication of 1578 A. triseriatus, in Nebraska 2380 Trixacarus caviae control of, acaricides for 1799 on guinea-pig, effects of 1799 on man, hypersensitivity to 1799 Trogidae, in carrion, in USA 452 | Trypanosoma brucei (see also Sleeping sickness) control of, vector control for 570 culture methods for 568, 2469 epidemiology of 1264 hosts of 2829 in Glossina austeni, effects on feeding behaviour of 2152 G. longipalpis, transmission of 1379 G. morsitans effects on feeding behaviour of 2152 effects on labrum mechanoreceptors of 3087 infection through membranes with 2468 | Triatominae, in Western Hemisphere 43 reservoirs of 2829 vectors of 1276, 2829 zymodemes of 2078 Trypanosoma gambiense (see T. brucei) Trypanosoma rangeli in dog, in Venezuela 3022 Lutzomyia sanguinaria, infectivity of 2136 Rhodnius pallescens, in Panama Canal Zone 21 R. prolixus in El Salvador 74 invasion of hemolymph by 3022 |
| 9-Tritriacontene, (Z)-, Stomoxys calcitrans sex-pheromone component 593 Triturus, preying on, Culicidae 2126 trivittatus, Aedes trivittatus, Tityus Trivittatus virus in Aedes dorsalis, replication of 1578 A. triseriatus, in Nebraska 2380 Trixacarus caviae control of, acaricides for 1799 on guinea-pig, effects of 1799 on man, hypersensitivity to 1799 Trogidae, in carrion, in USA 452 Trogoderma angustum | Trypanosoma brucei (see also Sleeping sickness) control of, vector control for 570 culture methods for 568, 2469 epidemiology of 1264 hosts of 2829 in Glossina austeni, effects on feeding behaviour of 2152 G. longipalpis, transmission of 1379 G. morsitans effects on feeding behaviour of 2152 effects on labrum mechanoreceptors of 3087 infection through membranes with 2468 infectivity of 2153 | Triatominae, in Western Hemisphere 43 reservoirs of 2829 vectors of 1276, 2829 zymodemes of 2078 Trypanosoma gambiense (see T. brucei) Trypanosoma rangeli in dog, in Venezuela 3022 Lutzomyia sanguinaria, infectivity of 2136 Rhodnius pallescens, in Panama Canal Zone 21 R. prolixus in El Salvador 74 invasion of hemolymph by 3022 Trypanosoma theileri |
| 9-Tritriacontene, (Z)-, Stomoxys calcitrans sex-pheromone component 593 Triturus, preying on, Culicidae 2126 trivittatus, Aedes trivittatus, Tityus Trivittatus virus in Aedes dorsalis, replication of 1578 A. triseriatus, in Nebraska 2380 Trixacarus caviae control of, acaricides for 1799 on guinea-pig, effects of 1799 on man, hypersensitivity to 1799 Trogidae, in carrion, in USA 452 Trogoderma angustum in Netherlands 315 | Trypanosoma brucei (see also Sleeping sickness) control of, vector control for 570 culture methods for 568, 2469 epidemiology of 1264 hosts of 2829 in Glossina austeni, effects on feeding behaviour of 2152 G. longipalpis, transmission of 1379 G. morsitans effects on feeding behaviour of 2152 effects on labrum mechanoreceptors of 3087 infection through membranes with 2468 | Triatominae, in Western Hemisphere 43 reservoirs of 2829 vectors of 1276, 2829 zymodemes of 2078 Trypanosoma gambiense (see T. brucei) Trypanosoma rangeli in dog, in Venezuela 3022 Lutzomyia sanguinaria, infectivity of 2136 Rhodnius pallescens, in Panama Canal Zone 21 R. prolixus in El Salvador 74 invasion of hemolymph by 3022 |
| 9-Tritriacontene, (Z)-, Stomoxys calcitrans sex-pheromone component 593 Triturus, preying on, Culicidae 2126 trivittatus, Aedes trivittatus, Tityus Trivittatus virus in Aedes dorsalis, replication of 1578 A. triseriatus, in Nebraska 2380 Trixacarus caviae control of, acaricides for 1799 on guinea-pig, effects of 1799 on man, hypersensitivity to 1799 Trogidae, in carrion, in USA 452 Trogoderma angustum in Netherlands 315 | Trypanosoma brucei (see also Sleeping sickness) control of, vector control for 570 culture methods for 568, 2469 epidemiology of 1264 hosts of 2829 in Glossina austeni, effects on feeding behaviour of 2152 G. longipalpis, transmission of 1379 G. morsitans effects on feeding behaviour of 2152 effects on labrum mechanoreceptors of 3087 infection through membranes with 2468 infectivity of 2153 transmission of 3086 | Triatominae, in Western Hemisphere 43 reservoirs of 2829 vectors of 1276, 2829 zymodemes of 2078 Trypanosoma gambiense (see T. brucei) Trypanosoma rangeli in dog, in Venezuela 3022 Lutzomyia sanguinaria, infectivity of 2136 Rhodnius pallescens, in Panama Canal Zone 21 R. prolixus in El Salvador 74 invasion of hemolymph by 3022 Trypanosoma theileri in |
| 9-Tritriacontene, (Z)-, Stomoxys calcitrans sex-pheromone component 593 Triturus, preying on, Culicidae 2126 trivittatus, Aedes trivittatus, Tityus Trivittatus virus in Aedes dorsalis, replication of 1578 A. triseriatus, in Nebraska 2380 Trixacarus caviae control of, acaricides for 1799 on guinea-pig, effects of 1799 on man, hypersensitivity to 1799 Trogidae, in carrion, in USA 452 Trogoderma angustum in Netherlands 315 in dwellings, in Netherlands 315 | Trypanosoma brucei (see also Sleeping sickness) control of, vector control for 570 culture methods for 568, 2469 epidemiology of 1264 hosts of 2829 in Glossina austeni, effects on feeding behaviour of 2152 G. longipalpis, transmission of 1379 G. morsitans effects on feeding behaviour of 2152 effects on labrum mechanoreceptors of 3087 infection through membranes with 2468 infectivity of 2153 transmission of 3086 G. pallidipes, in Kenya 1387 | Triatominae, in Western Hemisphere 43 reservoirs of 2829 vectors of 1276, 2829 zymodemes of 2078 Trypanosoma gambiense (see T. brucei) Trypanosoma rangeli in dog, in Venezuela 3022 Lutzomyia sanguinaria, infectivity of 2136 Rhodnius pallescens, in Panama Canal Zone 21 R. prolixus in El Salvador 74 invasion of hemolymph by 3022 Trypanosoma theileri in Glossina morsitans, development of |
| 9-Tritriacontene, (Z)-, Stomoxys calcitrans sex-pheromone component 593 Triturus, preying on, Culicidae 2126 trivittatus, Aedes trivittatus, Tityus Trivittatus virus in Aedes dorsalis, replication of 1578 A. triseriatus, in Nebraska 2380 Trixacarus caviae control of, acaricides for 1799 on guinea-pig, effects of 1799 on man, hypersensitivity to 1799 Trogidae, in carrion, in USA 452 Trogoderma angustum in Netherlands 315 in dwellings, in Netherlands 315 trogopteri, Hirstionyssus | Trypanosoma brucei (see also Sleeping sickness) control of, vector control for 570 culture methods for 568, 2469 epidemiology of 1264 hosts of 2829 in Glossina austeni, effects on feeding behaviour of 2152 G. longipalpis, transmission of 1379 G. morsitans effects on feeding behaviour of 2152 effects on labrum mechanoreceptors of 3087 infection through membranes with 2468 infectivity of 2153 transmission of 3086 G. pallidipes, in Kenya 1387 G. palpalis, transmission of 1118, 1264 | Triatominae, in Western Hemisphere 43 reservoirs of 2829 vectors of 1276, 2829 zymodemes of 2078 Trypanosoma gambiense (see T. brucei) Trypanosoma rangeli in dog, in Venezuela 3022 Lutzomyia sanguinaria, infectivity of 2136 Rhodnius pallescens, in Panama Canal Zone 21 R. prolixus in El Salvador 74 invasion of hemolymph by 3022 Trypanosoma theileri in Glossina morsitans, development of 1388 |
| 9-Tritriacontene, (Z)-, Stomoxys calcitrans sex-pheromone component 593 Triturus, preying on, Culicidae 2126 trivittatus, Aedes trivittatus, Tityus Trivittatus virus in Aedes dorsalis, replication of 1578 A. triseriatus, in Nebraska 2380 Trixacarus caviae control of, acaricides for 1799 on guinea-pig, effects of 1799 on man, hypersensitivity to 1799 Trogidae, in carrion, in USA 452 Trogoderma angustum in Netherlands 315 in dwellings, in Netherlands 315 trogopteri, Hirstionyssus Trolene (see Fenchlorphos) | Trypanosoma brucei (see also Sleeping sickness) control of, vector control for 570 culture methods for 568, 2469 epidemiology of 1264 hosts of 2829 in Glossina austeni, effects on feeding behaviour of 2152 G. longipalpis, transmission of 1379 G. morsitans effects on feeding behaviour of 2152 effects on labrum mechanoreceptors of 3087 infection through membranes with 2468 infectivity of 2153 transmission of 3086 G. pallidipes, in Kenya 1387 | Triatominae, in Western Hemisphere 43 reservoirs of 2829 vectors of 1276, 2829 zymodemes of 2078 Trypanosoma gambiense (see T. brucei) Trypanosoma rangeli in dog, in Venezuela 3022 Lutzomyia sanguinaria, infectivity of 2136 Rhodnius pallescens, in Panama Canal Zone 21 R. prolixus in El Salvador 74 invasion of hemolymph by 3022 Trypanosoma theileri in Glossina morsitans, development of |
| 9-Tritriacontene, (Z)-, Stomoxys calcitrans sex-pheromone component 593 Triturus, preying on, Culicidae 2126 trivittatus, Aedes trivittatus, Tityus Trivittatus virus in Aedes dorsalis, replication of 1578 A. triseriatus, in Nebraska 2380 Trixacarus caviae control of, acaricides for 1799 on guinea-pig, effects of 1799 on man, hypersensitivity to 1799 Trogidae, in carrion, in USA 452 Trogoderma angustum in Netherlands 315 in dwellings, in Netherlands 315 trogopteri, Hirstionyssus Trolene (see Fenchlorphos) | Trypanosoma brucei (see also Sleeping sickness) control of, vector control for 570 culture methods for 568, 2469 epidemiology of 1264 hosts of 2829 in Glossina austeni, effects on feeding behaviour of 2152 G. longipalpis, transmission of 1379 G. morsitans effects on feeding behaviour of 2152 effects on labrum mechanoreceptors of 3087 infection through membranes with 2468 infectivity of 2153 transmission of 3086 G. pallidipes, in Kenya 1387 G. palpalis, transmission of 1118, 1264 G. tachinoides, transmission of 1264 | Triatominae, in Western Hemisphere 43 reservoirs of 2829 vectors of 1276, 2829 zymodemes of 2078 Trypanosoma gambiense (see T. brucei) Trypanosoma rangeli in dog, in Venezuela 3022 Lutzomyia sanguinaria, infectivity of 2136 Rhodnius pallescens, in Panama Canal Zone 21 R. prolixus in El Salvador 74 invasion of hemolymph by 3022 Trypanosoma thelleri in Glossina morsitans, development of 1388 Stomoxys calcitrans, not infective 887 |
| 9-Tritriacontene, (Z)-, Stomoxys calcitrans sex-pheromone component 593 Triturus, preying on, Culicidae 2126 trivittatus, Aedes trivittatus, Tityus Trivittatus virus in Aedes dorsalis, replication of 1578 A. triseriatus, in Nebraska 2380 Trixacarus caviae control of, acaricides for 1799 on guinea-pig, effects of 1799 on man, hypersensitivity to 1799 Trogidae, in carrion, in USA 452 Trogoderma angustum in Netherlands 315 in dwellings, in Netherlands 315 trogopteri, Hirstionyssus Trolene (see Fenchlorphos) Trombicula autumnalis (see Neotrombicula | Trypanosoma brucei (see also Sleeping sickness) control of, vector control for 570 culture methods for 568, 2469 epidemiology of 1264 hosts of 2829 in Glossina austeni, effects on feeding behaviour of 2152 G. longipalpis, transmission of 1379 G. morsitans effects on feeding behaviour of 2152 effects on labrum mechanoreceptors of 3087 infection through membranes with 2468 infectivity of 2153 transmission of 3086 G. pallidipes, in Kenya 1387 G. palpalis, transmission of 1118, 1264 G. tachinoides, transmission of 1264 horse, in Sierra Leone 1379 | Triatominae, in Western Hemisphere 43 reservoirs of 2829 vectors of 1276, 2829 zymodemes of 2078 Trypanosoma gambiense (see T. brucei) Trypanosoma rangeli in dog, in Venezuela 3022 Lutzomyia sanguinaria, infectivity of 2136 Rhodnius pallescens, in Panama Canal Zone 21 R. prolixus in El Salvador 74 invasion of hemolymph by 3022 Trypanosoma theileri in Glossina morsitans, development of 1388 Stomoxys calcitrans, not infective 887 insect hormones in, effects of 1388 |
| 9-Tritriacontene, (Z)-, Stomoxys calcitrans sex-pheromone component 593 Triturus, preying on, Culicidae 2126 trivitatus, Aedes trivitatus, Tityus Trivitatus virus in Aedes dorsalis, replication of 1578 A. triseriatus, in Nebraska 2380 Trixacarus caviae control of, acaricides for 1799 on guinea-pig, effects of 1799 on man, hypersensitivity to 1799 Trogidae, in carrion, in USA 452 Trogoderma angustum in Netherlands 315 in dwellings, in Netherlands 315 trogopteri, Hirstionyssus Trolene (see Fenchlorphos) Trombicula autumnalis (see Neotrombicula autumnalis) | Trypanosoma brucei (see also Sleeping sickness) control of, vector control for 570 culture methods for 568, 2469 epidemiology of 1264 hosts of 2829 in Glossina austeni, effects on feeding behaviour of 2152 G. longipalpis, transmission of 1379 G. morsitans effects on feeding behaviour of 2152 effects on labrum mechanoreceptors of 3087 infection through membranes with 2468 infectivity of 2153 transmission of 3086 G. pallidipes, in Kenya 1387 G. palpalis, transmission of 1118, 1264 G. tachinoides, transmission of 1264 horse, in Sierra Leone 1379 man | Triatominae, in Western Hemisphere 43 reservoirs of 2829 vectors of 1276, 2829 zymodemes of 2078 Trypanosoma gambiense (see T. brucei) Trypanosoma rangeli in dog, in Venezuela 3022 Lutzomyia sanguinaria, infectivity of 2136 Rhodnius pallescens, in Panama Canal Zone 21 R. prolixus in El Salvador 74 invasion of hemolymph by 3022 Trypanosoma theileri in Glossina morsitans, development of 1388 Stomoxys calcitrans, not infective 887 insect hormones in, effects of 1388 Trypanosoma vivax |
| 9-Tritriacontene, (Z)-, Stomoxys calcitrans sex-pheromone component 593 Triturus, preying on, Culicidae 2126 trivitatus, Aedes trivitatus, Tityus Trivitatus virus in Aedes dorsalis, replication of 1578 A. triseriatus, in Nebraska 2380 Trixacarus caviae control of, acaricides for 1799 on guinea-pig, effects of 1799 on man, hypersensitivity to 1799 Trogidae, in carrion, in USA 452 Trogoderma angustum in Netherlands 315 in dwellings, in Netherlands 315 trogopteri, Hirstionyssus Trolene (see Fenchlorphos) Trombicula autumnalis (see Neotrombicula autumnalis) | Trypanosoma brucei (see also Sleeping sickness) control of, vector control for 570 culture methods for 568, 2469 epidemiology of 1264 hosts of 2829 in Glossina austeni, effects on feeding behaviour of 2152 G. longipalpis, transmission of 1379 G. morsitans effects on feeding behaviour of 2152 effects on labrum mechanoreceptors of 3087 infection through membranes with 2468 infectivity of 2153 transmission of 3086 G. pallidipes, in Kenya 1387 G. palpalis, transmission of 1118, 1264 G. tachinoides, transmission of 1264 horse, in Sierra Leone 1379 | Triatominae, in Western Hemisphere 43 reservoirs of 2829 vectors of 1276, 2829 zymodemes of 2078 Trypanosoma gambiense (see T. brucei) Trypanosoma rangeli in dog, in Venezuela 3022 Lutzomyia sanguinaria, infectivity of 2136 Rhodnius pallescens, in Panama Canal Zone 21 R. prolixus in El Salvador 74 invasion of hemolymph by 3022 Trypanosoma theileri in Glossina morsitans, development of 1388 Stomoxys calcitrans, not infective 887 insect hormones in, effects of 1388 |
| 9-Tritriacontene, (Z)-, Stomoxys calcitrans sex-pheromone component 593 Triturus, preying on, Culicidae 2126 trivitatus, Aedes trivitatus, Tityus Trivitatus virus in Aedes dorsalis, replication of 1578 A. triseriatus, in Nebraska 2380 Trixacarus caviae control of, acaricides for 1799 on guinea-pig, effects of 1799 on man, hypersensitivity to 1799 Trogidae, in carrion, in USA 452 Trogoderma angustum in Netherlands 315 in dwellings, in Netherlands 315 trogopteri, Hirstionyssus Trolene (see Fenchlorphos) Trombicula autumnalis (see Neotrombicula autumnalis) Trombicula pallida (see Leptotrombidium | Trypanosoma brucei (see also Sleeping sickness) control of, vector control for 570 culture methods for 568, 2469 epidemiology of 1264 hosts of 2829 in Glossina austeni, effects on feeding behaviour of 2152 G. longipalpis, transmission of 1379 G. morsitans effects on feeding behaviour of 2152 effects on labrum mechanoreceptors of 3087 infection through membranes with 2468 infectivity of 2153 transmission of 3086 G. pallidipes, in Kenya 1387 G. palpalis, transmission of 1118, 1264 G. tachinoides, transmission of 1264 horse, in Sierra Leone 1379 man in Ivory Coast 1118 | Triatominae, in Western Hemisphere 43 reservoirs of 2829 vectors of 1276, 2829 zymodemes of 2078 Trypanosoma gambiense (see T. brucei) Trypanosoma rangeli in dog, in Venezuela 3022 Lutzomyia sanguinaria, infectivity of 2136 Rhodnius pallescens, in Panama Canal Zone 21 R. prolixus in El Salvador 74 invasion of hemolymph by 3022 Trypanosoma theileri in Glossina morsitans, development of 1388 Stomoxys calcitrans, not infective 887 insect hormones in, effects of 1388 Trypanosoma vivax in |
| 9-Tritriacontene, (Z)-, Stomoxys calcitrans sex-pheromone component 593 Triturus, preying on, Culicidae 2126 trivittatus, preying on, Culicidae 2126 trivittatus, Aedes trivittatus, Tityus Trivittatus virus in Aedes dorsalis, replication of 1578 A. triseriatus, in Nebraska 2380 Trixacarus caviae control of, acaricides for 1799 on guinea-pig, effects of 1799 on man, hypersensitivity to 1799 Trogidae, in carrion, in USA 452 Trogoderma angustum in Netherlands 315 in dwellings, in Netherlands 315 trogopteri, Hirstionyssus Trolene (see Fenchlorphos) Trombicula autumnalis (see Neotrombicula autumnalis) Trombicula pallida (see Leptotrombidium pallidum) | Trypanosoma brucei (see also Sleeping sickness) control of, vector control for 570 culture methods for 568, 2469 epidemiology of 1264 hosts of 2829 in Glossina austeni, effects on feeding behaviour of 2152 G. longipalpis, transmission of 1379 G. morsitans effects on feeding behaviour of 2152 effects on labrum mechanoreceptors of 3087 infection through membranes with 2468 infectivity of 2153 transmission of 3086 G. pallidipes, in Kenya 1387 G. palpalis, transmission of 1118, 1264 G. tachinoides, transmission of 1264 horse, in Sierra Leone 1379 man in Ivory Coast 1118 in Tanzania 3134 | Triatominae, in Western Hemisphere 43 reservoirs of 2829 vectors of 1276, 2829 zymodemes of 2078 Trypanosoma gambiense (see T. brucei) Trypanosoma rangeli in dog, in Venezuela 3022 Lutzomyia sanguinaria, infectivity of 2136 Rhodnius pallescens, in Panama Canal Zone 21 R. prolixus in El Salvador 74 invasion of hemolymph by 3022 Trypanosoma theileri in Glossina morsitans, development of 1388 Stomoxys calcitrans, not infective 887 insect hormones in, effects of 1388 Trypanosoma vivax in game animals, in Uganda 2830 |
| 9-Tritriacontene, (Z)-, Stomoxys calcitrans sex-pheromone component 593 Triturus, preying on, Culicidae 2126 trivitatus, Aedes trivitatus, Tityus Trivitatus virus in Aedes dorsalis, replication of 1578 A. triseriatus, in Nebraska 2380 Trixacarus caviae control of, acaricides for 1799 on guinea-pig, effects of 1799 on man, hypersensitivity to 1799 Trogidae, in carrion, in USA 452 Trogoderma angustum in Netherlands 315 in dwellings, in Netherlands 315 trogopteri, Hirstionyssus Trolene (see Fenchlorphos) Trombicula autumnalis (see Neotrombicula autumnalis) Trombicula pallida (see Leptotrombidium | Trypanosoma brucei (see also Sleeping sickness) control of, vector control for 570 culture methods for 568, 2469 epidemiology of 1264 hosts of 2829 in Glossina austeni, effects on feeding behaviour of 2152 G. longipalpis, transmission of 1379 G. morsitans effects on feeding behaviour of 2152 effects on labrum mechanoreceptors of 3087 infection through membranes with 2468 infectivity of 2153 transmission of 3086 G. pallidipes, in Kenya 1387 G. palpalis, transmission of 1118, 1264 G. tachinoides, transmission of 1264 horse, in Sierra Leone 1379 man in Ivory Coast 1118 | Triatominae, in Western Hemisphere 43 reservoirs of 2829 vectors of 1276, 2829 zymodemes of 2078 Trypanosoma gambiense (see T. brucei) Trypanosoma rangeli in dog, in Venezuela 3022 Lutzomyia sanguinaria, infectivity of 2136 Rhodnius pallescens, in Panama Canal Zone 21 R. prolixus in El Salvador 74 invasion of hemolymph by 3022 Trypanosoma theileri in Glossina morsitans, development of 1388 Stomoxys calcitrans, not infective 887 insect hormones in, effects of 1388 Trypanosoma vivax in |

Trypanosomatidae, in, Toxorhynchites underhilli. Simulium Turkeys contd. unguiculata, Uranotaenia unifasciata, Notonecta splendens, in Thailand 1606 Simulium congareenarum on, in Florida Trvpanosomiasis 365 uniformis, Mansonia control of 194, 195, 196, 197, 198 S. nigritarsis on, in South Africa in Zimbabwe 2150 S. slossonae on, in Florida 365 unilineatus, Aedes in Zimoaowe 2130 land use as affecting, review 2464 world public health problems with 2829 Tryporyza incertulas (see Scirpophaga Triatoma barberi on, in Mexico 3023 Union of Soviet Socialist Republics Turlock virus Aedes spp. in 529, 778, 2111, 2386 A. caspius in Aedes dorsalis, replication of 1578 Culicidae, in California 85, 1851 natural enemies of 2102 incertulas) Trypsin, in Aedes aegypti, damage to
Plasmodium gallinaceum by 1067 nematodes in 77 Turpentine A. communis in, in man-made lakes against, myiasis-causing flies, on man Trypsin inhibitor in Boophilus microplus, characterization of 2587 A. diantaeus in, on man 1076 A. nigrinus in 516 with trichloromethane, against, Chrysomya bezziana, on man turturis, Haemaphysalis in Stomoxys calcitrans blood-meals, effects A. punctor in, in man-made lakes 3097 on fecundity of 1955

L-Tryptophan, in Periplaneta americana, accumulating after inhibition of serotonin synthesis 2053 A. sticticus in tuta, Amphipsylla
Tween 80, in diazinon formulations, effects
on insecticidal activity of 3244
Twinnia, taxonomy of 3124
Tydeidae, in house dust, in Brazil 1453 A. vexans in 2109 Anopheles spp. in 1064, 1558

A. maculipennis in 333

A. messeae in 775, 1078 L-Tryptophan, 5-hydroxy-, in Periplaneta americana, accumulating after inhibition of serotonin synthesis 2053 Tuamotu Islands, Culicoides belkini in 1097, 1098 A. pulcherrimus in, on man 2106
A. sacharovi in 2108 Tylolaelaps rhizomydis gen. et sp. nov., description of 1214 in China 1214 Apodemus agrarius in, arthropod parasites tuberculatus, Haematopinus on Rhizomys pruinosus, in China 1214 of 1744 tuberculifrons, Onthophagus typhlomydis, Sinolaelaps Argas persicus in 2042, 2675 Typhlomys cinereus, Gamasoidea on, in China 2639 tuberosum, Simulium Argasidae in, viruses in 1747 Tubocurarine, in Periplaneta americana, arthropod pests in, common names of typhus, Hybomitra blocking trochanteral hairplate afferents 309 Blattaria in 51 Tyramine (see Phenol, 4-(2-aminoethyl)-) Tugon (see Trichlorphon)
Tularemia (see also Pasteurella tularensis)
in Great Basin, review 1150
in man, causing symptoms of
lymphadenitis 2905 Blattella germanica in 248 blood-sucking arthropods in 9 Cephenemyia trompe in, on reindeer Tyres Aedes spp. in, in Sabah 3169
A. aegypti in, in Bahamas 20!
A. atropalpus in, in Kentucky
mosquito control in 1075 Ceratopogonidae in 554, 3028 Cimex lectularius in 2042, 2675 Coquillettidia richiardii in 2376 in Ukraine 2219 Tyroglyphidae, on man, hypersensitivity to transmission of 1150
Tuleniy virus, in, Ixodidae, in USSR 2963 1219
Tyrophagus putrescentiae
allergens of, phosphorylcholine in 2914
1,3-butanediol in, metabolism of 1975
citral bioassay using 3223
fecundity in, effects of diet on 2019
glucose in, metabolism of 1975
in Peru 273
in UK 2650
in USA 1794
in house dust on man 1076 Culex modestus in, viruses in 3090 Aedes hexodontus in, in USSR 778

A. nigripes in, in USSR 778 C. molestus in, on man 2110 pipiens in on man 2110
Culicidae in 120, 1086
Culicoides spp. in 181, 2807
Dermacentor marginatus in, viruses in Tunga monositus
feeding behaviour in 1547
in Mexico 1547
in USA 1547 on Peromyscus maniculatus 1547 in house dust D. nuttalli in, rickettsiae in 2911
D. pictus in, rickettsiae in 2911
Dermanyssus gallinae in 2042, 2675 in Ohio 1794 in Peru 273 Phlebotominae in 2446 Pyemotes tritici in, on man 2635

Tupaia glis, Tupaiopus thailandicus on, in
Thailand 3219 life-span in, effects of diet on 2019 lipids in 2020 Dermaptera in 51 Dermatophagoides farinae in, in house dust 2236
D. pteronyssinus in, in house dust 2236
Diptera in 26
on cattle 2879 on man, hypersensitivity to 2634, 2650 Tyrosinase (see Oxygenase, monophenol Tupaiopus thailandicus gen. et sp. nov., description of 3219 in Thailand 3219 mono-) L-Tyrosine, in Culex quinquefasciatus, effects of Plasmodium cathemerium on on Anourosorex squamipes, in Thailand on Tupaia glis, in Thailand 3219
turanicum, Hyalomma marginatum
turanicus, Culicoides
turanicus, Rhipicephalus
Turbellaria 101, 1657, 2126
Bothromesostoma personatum 103
Dugesia dorotocephala 1054, 1861
D. japonica 339
D. tigrina 2382
Mesostoma 2761
M. ehrenberghii 103
M. lingua 103, 1883
Rhynchomesostoma rostratum 103. 3219 Gamasinae in 931
on Sorex 2040 440 Uchida phasiani sp. nov., description of 1528 in Poland 1528 on Phasianus colchicus, in Poland 1528 Gamasoidea in, on small mammals 667 Uganda Gasterophilidae in, on horse 1674, 3140 Culex watti in 2781 Gasterophilus spp. in, on horse 2839, Cutex watti in 2761
Diptera in, in game reserves 3180
Glossina spp. in 2830, 3133
G. morsitans in 373
onchocerciasis in 2452
trypanosomiasis in 2830
tsetse control in 373 3141 Glyptotendipes barbipes in 598
Haemaphysalis spp. in 2223
Haematobia irritans in, nematodes in 77
Haematopota pallens in 1152 Rhynchomesostoma rostratum 103, 1883 turbidus, Megabothris Ugandobia dissimilis Hoplopleura merionidis in, on gerbil Turdus philomelos, Ixodes ricinus on, in West Germany 2218 sp. nov., description of 1773 in Thailand 1773 Hyalomma marginatum in, viruses in Hybomitra erberi in 1152 H. montana in, on livestock 2168 turkestanica, Laelaps on Taphozous melanopogon, in Thailand Turkey Anopheles hyrcanus in 2364, 3048
A. maculipennis in 3048
A. sacharovi in 2364, 3048
Turkeys (Meleagris gallopavo)
Amblyomma americanum on, in uhleri, Triatoma rubida Hypoderma bovis in, on cattle 1123, 1125, 3140 Ulcer, in horse, caused by Epicauta 402
ulicis, Apion
Umbellularia californica, Aedes sierrensis in
holes in, in California 164 Ischnopsyllus transcaucasicus in, on Plecotus 2719 Ixodes lividus in, in Riparia riparia nests Mississippi 925 arthropod pests of, in USA 421 carbaryl in, toxicity of 306 Cnephia ornithophilia on, in Florida 365 umbonatus, Echinonyssus umbrarum, Dictya umbratilis, Lutzomyia I. persulcatus in 641, 2611 on Sorex 2040 viruses in 2586 Uncia uncia Notoedres cati on
effects of 1446
in San Antonio Zoo 1446
uncinatus, Ctenophthalmus
Undecanamine, N,N-dimethyl-, against,
Psoroptes cuniculi, on rabbit 1218 Leucocytozoon smithi in in Canada 1927 in South Africa 1364 in USA 1927 I. ricinus in 641 Ixodidae in 1754 bacteria in 2219 on cattle 1187 on Erinaceus 1434 viruses in 1747, 2963 leishmaniasis in 44, 1104 Leptoconops borealis in 2807 Menacanthus stramineus on, in Mississippi 925 est control on 925 Undecanoic acid, 2-hexylagainst, Culex quinquefasciatus 1856 Plasmodium hermani in, in Florida 12 methyl ester, against, Culex quinquefasciatus 1856 Leptotrombidium spp. in, on rodents Menacanthus stramineus in 2042 preying on, Hypoderma spp., in Italy

| Union of Soviet Socialist Republics contd. | United Kingdom contd. | Uranotaenia lowii contd. |
|---|---|--|
| mouse-like rodents in, arthropod parasites | Musca domestica in 1141, 3012 | in USA 1331, 3059 |
| of 639 Musca larvipara in, nematodes in 77 | Muscidae in 902 Ornithodoros maritimus in, viruses in | traps for 1331 |
| Muscidae in, nematodes in 77 | 2592 | visual responses to 3059 Uranotaenia macfarlanei |
| Oedemagena tarandi in, on reindeer | Otodectes cynotis in, on ferret 415 | in Japan 821 |
| 1124 | Pediculus capitis in, on man 59 | taxonomy of |
| Oestridae in, on horse 1674 | P. humanus in, on man 59 | characters distinguishing U. annandale |
| Oestrus ovis in, on sheep 576, 2471 | Psoroptes ovis in, on sheep 283 | and 821 |
| Ornithodoros coniceps in 1431 | Pthirus pubis in, on man 59 | characters distinguishing <i>U. lateralis</i> |
| Ornithonyssus bacoti in, on mouse 286 Orthoptera in 51 | Sarcoptes scablei in, on man 59 | and 821 |
| Phlebotominae in 1104, 2139 | Scarabaeidae in, in dung 3183 Sepsidae in 2184 | Uranotaenia sapphirina in USA 1620, 3059 |
| flagellates in 44, 556 | Simuliidae in, in chalk streams 2817 | in rice-fields, in Louisiana 1620 |
| Phlebotomus spp. in 2137 | Simulium spp. in 2460 | traps for, visual responses to 3059 |
| P. papatasi in 557 | Siphonaptera in 768 | Uranotaenia srilankensis |
| in dwellings 2813 Phoridae in | Stomoxys calcitrans in, on cattle 2848, 2849 | biology of 1636 |
| in dwellings 1400 | veterinary entomology in 2005, 2278 | descriptions of 1636 in Sri Lanka 1636 |
| in rubbish dumps 1400 | United States of America (see also | in crab holes, in Sri Lanka 1636 |
| Polyplax spp. in, on gerbil 60 | individual States) | Uranotaenia unguiculata, in Portugal 1639 |
| Rhinoestrus purpureus in, on horse | Araneae in, book 2998 | Uranotaeniini, taxonomy of 2100 |
| 2839, 3141 Sarcophagidae in 27, 221 | arthropod pests in, new records of 313 | Urban areas |
| Scorpiones in 2935 | fowl in, arthropod pests of 421 Heteroptera in, book 2999 | Aedes aegypti in, in West Malaysia 108 fly control in 2874 |
| Sergentomyia spp. in 557 | insects in, book 2996 | mosquito control in 971 |
| Simuliidae in 24, 193, 3028 | Ixodoidea in, book 2997 | truck-mounted ULV sprays for 146 |
| nematodes in 77 | mites in, book 2997 | synanthropic Diptera in, in Poland 907 |
| on man 361 | mosquito control in 145 | Urea |
| Simulium spp. in, natural enemies of 2454 | turkeys in, arthropod pests of 421 univitatus, Culex | in Atrax robustus venom 2660 in frog, effects of scorpion venom on 94 |
| S. morsitans in 1112 | upolensis, Aedes | Urea, N,N'-dibutyl-N,N'-diethyl-, repellent |
| S. ornatum in, natural enemies of 1105 | Upolu virus, in, Ornithodoros spp. 2966 | for, Aedes aegypti 2742 |
| Siphonaptera in 1038 | Upper Volta | Urea, N,N'-dibutyl-N,N'-dimethyl-, repellen |
| in Microtus nests 1546 | Aedes aegypti in, in water containers 1079 | for, Aedes aegypti 2742 |
| on Citellus 2346 on jerboa 1031 | A. luteocephalus in, viruses in 3080 | Urea, N,N'-dibutyl-N,N'-dipropyl-, repellent for, Aedes aegypti 2742 |
| on Rhombomys 1025 | Anopheles spp. in, in dwellings 1564 | Urea, tetrabutyl-, repellent for, Aedes |
| on rodents 2348 | Culicidae in, on man 2786 | aegypti 2742 |
| on small mammals 499, 2083 | Glossina spp. in 1383, 2831, 3128 | uriae, Ixodes |
| on Sorex 2040 | G. medicorum in 2151 | Uric acid (see 1H-Purine-2,6,8(3H)-trione, |
| Tabanidae in 25, 232, 233, 581, 601, 1135, 3028 | G. palpalis in 565, 2722, 3129 G. tachinoides in 2837, 3129, 3130 | 7,9-dihydro-) 5'-Uridylic acid, in Culex pipiens diet, |
| Tabanus spp. in, natural enemies of 1406 | Mansonia spp. in, in dwellings 1564 | requirement for 133 |
| Tamiopsochirus laosensis in, on Tamias | onchocerciasis control in 1109, 1110 | Urination disorders, in horse, caused by |
| 280 | onchocerciasis in 2147 | Epicauta 402 |
| Trombiculidae in 288, 1783 | Simulium spp. in, nematodes in 2453 | urinator, Sphaerodema |
| wector control in 2254 Wohlfahrtia spp. in, on cattle 3153 | yellow fever in 3080 Uranotaenia | Urocyon cinereoargenteus arthropod parasites of, in Indiana 1256 |
| Xenopsylla spp. in | Coelomomyces spp. in, in Thailand 1607 | Dermacentor variabilis on, paralysis |
| bacteria in 1027 | in France 177 | caused by 2006 |
| on Rhombomys 1846 | in Indonesia 2090 | Suricatoecus quadraticeps on |
| X. gerbilli in, on Rhombomys 1026 | in Malagasy Republic 2408 | in Indiana 57, 1527 |
| X. nuttalli in, on Rhombomys 1023 X. skrjabini in 767 | setae in 2765 Uranotaenia albescens | in Texas 1530 Urticaria |
| on <i>Rhombomys</i> 1023, 1024 | host preferences of 1291 | in man |
| unisetosa, Odontacarus | in Australia 1291 | caused by Culicidae 546 |
| unispinosa, Anevrina | Uranotaenia annandalei | caused by Lepidoptera 710, 1506 |
| United Kingdom | in Japan 821 | caused by Periplaneta americana 232 |
| Aedes geniculatus in, on man 1565 applied entomology in 736, 783, 1508, | taxonomy of characters distinguishing <i>U. lateralis</i> | caused by <i>Thaumetopoea pityocampa</i> 2895 |
| 1668 | and 821 | caused by Trixacarus caviae 1799 |
| arthropod pests in, common and scientific | characters distinguishing U. macfarlanei | caused by urticating hairs of |
| names of 2958 | and 821 | Lepidoptera 1736 |
| Blatta orientalis in 1507 | Uranotaenia belkini | role of Dermatophagoides farinae in |
| Blattella germanica in 1507 blowflies in 1141 | sp. nov., description of 548 in Malagasy Republic 548 | 2633 ustinovi, Culicoides |
| cluster flies in 1141 | in Nepenthes madagascariensis pitchers, in | Utah |
| Culex pipiens in 351 | Malagasy Republic 548 | Aedes epactius in 1303 |
| C. torrentium in 351 | Uranotaenia bosseri | Culex nigripalpus in 1302 |
| Culicoides spp. in | sp. nov., description of 548 | C. tarsalis in 1302 Culicidae in 1300 |
| on goat 3107 on man 3107 | in Malagasy Republic 548 in Nepenthes madagascariensis pitchers, in | Culiseta alaskaensis in 814 |
| Dermestes lardarius in, in poultry houses | Malagasy Republic 548 | Ephydra cinerea in 2533 |
| 638 | Uranotaenia brunhesi | Lycosa spp. in, on man 688 |
| D. maculatus in, in poultry houses 638 | sp. nov., description of 548 | Triatoma protracta in, flagellates in 270 |
| Diptera in, on cattle 2853 Euproctis chrysorrhoea in, on man 2196 | in Malagasy Republic 548 in Nepenthes madagascariensis pitchers, in | tularemia in 1150 Uukuniemi virus |
| Fanniidae in 902 | Malagasy Republic 548 | genome of 2975 |
| Geotrupes spiniger in 239 | Uranotaenia damasei | in |
| Haematobia irritans in, on cattle 2848, | sp. nov., description of 548 | Ixodes spp. 2966 |
| 2849 Hydrophilidae in in dung 2182 | in Malagasy Republic 548 | I. ricinus, transmission of 922 |
| Hydrophilidae in, in dung 3183 Hydrotaea irritans in 582 | in Nepenthes madagascariensis pitchers, in Malagasy Republic 548 | man, antibodies to 2600 Uukuniemi viruses, in, Ixodoidea, in |
| in pasture soils 1414 | Uranotaenia lateralis | Norway 2965 |
| Hypoderma spp. in, on cattle 2512, 2838 | in Japan 821 | Uveitis, in mammals, caused by tick-borne |
| H. bovis in, on cattle 577 | taxonomy of | spiroplasmas 3189 |
| H. lineatum in, on cattle 577 | characters distinguishing <i>U. annandalei</i> | Vaccination, of mouse, against Trypanosom |
| Hystrichopsylla talpae in 1286 Ixodes ricinus in 2952 | and 821 characters distinguishing <i>U. macfarlanei</i> | cruzi 2074 vagans, Leptocera |
| on cattle 2625 | and 821 | L-Valine, in Anopheles stephensi |
| medical entomology in 2265 | Uranotaenia lowii | hemolymph, effects of <i>Plasmodium</i> |
| mosquito research in 2427 | flight activity in 1331 | berghei on 1048 |

in insects, review 997

V. germanica 1423

vancouverensis. Eptescopsylla (see Venoms contd. Vespula germanica contd. taxonomy of, characters distinguishing Nycteridopsylla vancouverensis) Vespula contd. vancouverensis, Nycteridopsylla V. maculifrons 1423, 2540 Apis mellifera and 2535 V. vulgaris 1423, 2540 conference 1257 (Eptescopsylla) venom of 1423 vanderkelleni. Onitis Vespula maculata (see Dolichovespula vanderkeneni, Onius vanduzeei, Wyeomyia Vaponite (see Dichlorvos) ventalloi, Ixodes maculata) venustum. Simulium Vespula maculifrons Verapamil, in Amblyomma americanum, inhibiting salivation 1757 vespuia maculifrons
allergens of 1423
enzymes in 1423, 2540
venom of 1423, 2540
Vespula squamosa varia, Hybopygia variabilis, Dermacentor variegata, Hippobosca Verbenol (see Bicyclo[3.1.1]hept-3-en-2-ol, 4,6,6-trimethyl-) variegatum, Amblyomma variipennis, Culicoides varipalpus, Aedes colour preferences in 1176 in USA 1176 traps for 1176 verecundum, Simulium Vermipsylla, in China 1035 varipes, Chrysomya varuna, Anopheles Vermont, Culiseta morsitans in 814 vernalis, Acanthocyclops (Cyclops) Vespula vulgaris espina vingaris allergens of 1423 enzymes in 1423, 2540 in Iceland 2537 in Spain 1967 in USA (Hawaii) 2280 Vectors vernalis, Cyclops (see Acanthocyclops control of 462, 464, 972, 2254 aerial sprays for 4 biological 2674 in Italy 973 vernalis) vernum, Eusimulium (Simulium) vernum, Simulium (see Eusimulium vernum) verrucosus, Ornithodoros in Italy 973 insecticides for 2286 non-target effects of 302, 968 ULV insecticides for 1501 land use changes as affecting 26 on man, hypersensitivity to, diagnosis of 2198 Vertebrates, arthropod associations of, evolution of 2294 Vesicular stomatitis virus, in, livestock, in venom of 1423, 2540 Vetrazin (see 1,3,5-Triazine-2,4,6-triamine, 2695 Canada 2964 pesticide resistance in 1226 WHO work on 1505 Vespa N-cyclopropyl-) in Nansei Islands 712 vetulus, Simocephalus Vegetable waste vetustissima, Musca on man vexans, Aedes vexans, Culicoides Diptera in hypersensitivity to 2541 in California 207 in Pakistan 2986 protective clothing against venoms of 1257, 2541 2193 vexator, Lutzomyia (Phlebotomus) vexator, Phlebotomus (see Lutzomyia Veigaia nemorensis in Poland 935 on bat, in Poland Vespa maculata (see Dolichovespula maculata) vexator)
vexatrix, Lutzomvia (see L. vexator) 935 Vespa orientalis Vespa orientalis
cuticle in, effects of venom on
photoelectric properties of 117
glycogen in, reserves of 2536
in Afghanistan 1972
venom of 632, 1170, 2988
Vespa vulgaris (see Vespula vulgaris)
Vespa vulgaris (see Vespula vulgaris) venatoria, Heteropoda venatorius, Ooencyrtus trinidadensis Vibrio, in, Argas persicus, in Pakistan 1170 1996 Venezuela viciae, Megoura Aedes aegypti in 1060 viruses in 1347 vicina, Calliphora Echidnophaga spp. in, on rabbit 500 Lucilia cuprina in 596, 2883 Anopheles nuneztovari in 3069 Atelepalme spp. in 278
Culex quinquefasciatus in, viruses in 1347 Vespertilio orientalis, Trombiculidae on, in Honshu 942 Phthiraptera in, on cattle 488 Honshu 942
Vespertilio superans, Acanthophthirius
vespertilionis on, in Japan 2644
vespertilionis, Acanthophthirius
vespertilionis, Cheletonella
vespertilionis, Leptocimex
vespertilionis, Microtrombicula Rhodacantha spp. in, on Dasyuridae dengue in 1347 leishmaniasis in 185, 186 1216 Spilopsyllus cuniculi in, on rabbit 1549 leishmaniasis in 185, 186

Lutzomyia longipalpis in 186
mosquito control in 1060

Phlebotomus spp. in 185, 186

Rhodnius prolixus in 2706
on man 73
Scorpiones in 687
Triotoma propulate in 2706 vigil, Wohlfahrtia vigilax, Aedes vindemiae, Pachycrepoideus vinogradovi, Amphipsylla Vespidae control of, traps for 466 in Afghanistan 1972 Virgin Islands, arthropod pests in, new records of 313 Triatoma maculata in 27 Triatominae in 69, 1539 in Spain 1967 Virginia in carrion, in USA 452 Culicoides spp. in, natural enemies of on man, effects of sting by 242 social behaviour in, evolution of, review 2303 Venezuelan equine encephalitis (see Encephalitis, Venezuelan equine) venezuelensis, Coquillettidia 1553 Simulium spp. in, natural enemies of 1553 Sylvilagus floridanus in, arthropod parasites of 2282 viridis, Acanthocyclops viridis, Orthellia Venoms Vespinae, social behaviour in 2303 Androctonus australis 292, 2659, 2988 Vesnula Androctonus austraus 292, 2659, 2988 A. crassicauda 2932 Apis mellifera 241, 401, 403, 633, 634, 1173, 1420, 1422, 1738, 1739, 1971, 2035, 2197, 2198, 2201, 2534, 2539, 2540, 2541, 2542, 2543, 2988, 3182, on man antibodies to 2542 hypersensitivity to 2541 diagnosis of 2035, 2201 treatment of 401 venom of 401, 2201, 2541, 2542 allergens of 2198 Viruses and virus diseases of arthropods Aedes aegypti 10 A. caspius 2102 1061, 2112 3184, 3185 Atrax robustus Bombus 2540 A. taeniorhynchus 162 Chironomus spp. 1136 Darna trima 1804 2660 Vespula acadica in USA 631 Buthotus saulcyi 2932 Buthus occitanus 3237 B. tamulus 3236 Periplaneta fuliginosa 30 diagnostic manual 2031 Vespula austriaca in colonies of, in Idaho 631 3008 Centruroides vishnui, Culex 2988 Vespula arenaria (see Dolichovespula C. elegans 681 C. noxius 3238 arenaria) Vitamin A Vespula austriaca in Peromyscus leucopus, effects on Dolichovespula arenaria 1423, 2035, in USA 631 susceptibility to Cuterebra fontinella of 2540 in Vespula acadica colonies, in Idaho 375 D. maculata 1423, 2035, 2540 631 in rat diet, not affecting ticks 410 Heterometrus fulvipes 686, 948, 3239 Latrodectus 2988 L. antheratus 1801 Vespula germanica Vitamin B allergens of 1423 bacteria in, in East Germany 1832 biology of 2535 enzymes in 1423 in Xenopsylla astia diet, required for vitellogenesis 1281 in Xenopsylla cheopis diet, required for vitellogenesis 1281 L. tredecimguttatus 1802, 2251, 2252 Leiurus quinquestriatus 683, 949, 1220, Vitamin B₁₂, in Periplaneta americana, role in DNA synthesis of 1271 flungi in, in East Germany 1832 illustrations of 2535 in Australia 404, 2535 1222
Loxosceles 2988
L. reclusa 291, 682, 684, 685, 951, 2661, 2662, 2934, 3232, 3234
Mesobuthus eupeus 2932
Polistes 1741, 2035
Scorpio maurus 2932
Solenopsis invicta 1419
Tityus serrulatus 290, 966, 2988
Vespa 2541
V orientalis 632 1170 2988 Vitamin E, in rabbit, effects on Glossina palpalis of 2835 in East Germany in Iceland 2537 Vitamin K, in rat diet, effects on ticks of in New Zealand 404, 2535 in Spain 1967 410 Vitamins, in rabbit, effects on Glossina in grocery shops, in East Germany 1832 nest sites of 404 palpalis of 1121 Vitellogenins in Aedes aegypti, ecdysterone not inducing synthesis of 1629 nests of V. orientalis 632, 1170, 2988 distinguishing *Polistes* nests and 2535 distinguishing *Rhopalidia* nests and Vespula 401, 2035, 2198, 2201, 2541, 2542 in Culex nigripalpus, ecdysterone not inducing synthesis of 1629

pest status of 2535

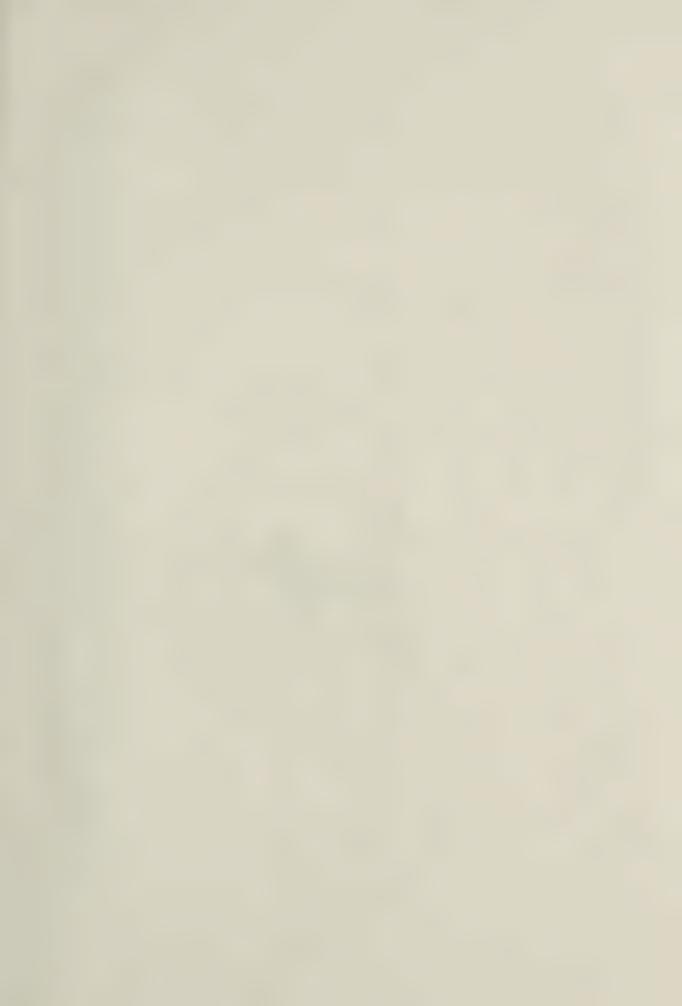
| Vitallaganine contd | Wassal long tailed (Mustale francts) | Wisconsin contd |
|---|--|---|
| Vitellogenins contd. | Weasel, long-tailed (Mustela frenata) | Wisconsin contd. |
| in Nauphoeta cinerea | Weight gain (see Growth rate) | Culicoides guttipennis in, on man 833 |
| JH inducing synthesis of 1525 | wellcomei, Lutzomyia | C. paraensis in, on man 833 |
| synthesis and utilisation of 998 | wellingtoni, Haemaphysalis | Dermacentor variabilis in 259 |
| in Rhipicephalus sanguineus, synthesis of | Wells | Lyme arthritis in 2619 |
| 1980 | Anopheles culicifacies in, in Tamil Nadu | wladimiri, Ctenophthalmus |
| Vitis vinifera (see Grapevine) | 1297 | Wohlfahrtia |
| Vitis vinifera (dried fruit) (see Raisins and | A. stephensi in, in Tamil Nadu 540, | control of, insecticides for 3153 |
| sultanas) | 1297, 2776, 2777 | on cattle, in USSR 3153 |
| vitripennis, Nasonia | A. varuna in, in Tamil Nadu 1297 | on man, affecting eyes 1241 |
| vittatum, Simulium | Culex quinquefasciatus in, in Delhi 2695 | Wohlfahrtia magnifica |
| vittatus, Aedes | Culicidae in, in Djibouti 1075 | control of 2044 |
| vittatus, Aphodius | Cyclops spp. in, in Mali 1224 | in Mongolia 2044 |
| vittiger, Aedes | mosquito control in 1075 | in Romania 2529 |
| vituli, Linognathus | Wendelinus Öl (see HCH) | on camel, in Mongolia 2044 |
| Vole, bank (see Clethrionomys glareolus) | wernecki, Pariodontis riggenbachi | on sheep, in Romania 2529 |
| Vole, common (see Microtus arvalis) | Werneckia, keys to 1272 | Wohlfahrtia vigil opaca |
| Vole, northern red-backed (see | Werneckia africana | in USA 1718 |
| Clethrionomys rutilus) | sp. nov., description of 1272 | on man, in Colorado 1718 |
| Vole, root (see Microtus oeconomus) | in Nigeria 1272 | |
| volgensis, Ophthalmopsylla | on Funisciurus, in Nigeria 1272 | Wollachia in Aedes spp. 2803 |
| vollenweideri, Atta | | Wolbachia, in, Aedes spp. 2803 |
| | Werneckia nigeriensis | Wolbachia pipientis, in, Culex pipiens 2803 |
| vomerifer, Culex | sp. nov., description of 1272 | Wolbachieae, in, Aedes spp. 2803 |
| vomitoria, Calliphora | in Nigeria 1272 | Wolf (see Canis lupus) |
| vulgaris, Argas | on Funisciurus, in Nigeria 1272 | Wolfartol (see Trichlorphon) |
| vulgaris, Vespa (see Vespula vulgaris) | Werneckiella equi | Wolfazol (see Crotoxyphos) |
| vulgaris, Vespula (Vespa) | in Spain 1495 | Womersia strandtmani |
| Vulpes fulva, Siphonaptera on, dermatitis | on horse, in Spain 1495 | prey of, attraction and paralysis of 665 |
| caused by 2712 | West Nile virus | preying on, Collembola 665 |
| Vulpes vulpes | in | woodi, Simulium |
| arthropod parasites of, in Indiana 1256 | Aedes albopictus, replication of 2760 | woodi, Triatoma protracta |
| Leishmania spp. in, in Italy 2142 | Culex modestus, transmission of 968 | Woodland |
| Suricatoecus quadraticeps on, in Indiana | C. tritaeniorhynchus | Aedes spp. in, in Minnesota 1610 |
| 57 | replication of 3095 | Ixodidae in, sampling of 1750 |
| vulpis, Suricatoecus | transmission of 2798 | mosquito control in 1610 |
| Wagtail, yellow (see Motacilla flava) | C. univittatus, transmission of 1575 | Tabanidae in, effects of endosulfan on |
| Walchia americana | horse, in France 968 | 1374 |
| control of, acaricides for 2024 | man | Woodland, savanna, endosulfan in, non- |
| in USA 2024, 2240 | in Central African Republic 3047 | target effects of 1385 |
| on cat, effects of 2024 | in France 968 | World Health Organization, report on |
| on Didelphis marsupialis, in Florida | pigeon, in South Africa 1575 | 1505 |
| 2240 | rodents, in France 968 | Wuchereria bancrofti |
| Walchia koshikiensis | West Virginia | control of 1096 |
| sp. nov., description of 2925 | Culicidae in 798 | vector control for 722, 2113 |
| in Japan 2925 | Tabanidae in 395, 1161 | epidemiology of 1264 |
| in rodent nests, in Kyushu 2925 | Western Australia | in |
| Walchiella oudemansi | Alabidopus muris in, on Rattus 1445 | Aedes aegypti, development of 550 |
| | | |
| in Malaysia 3217 | Culex spp. in 1632 | A. pembaensis, not developing 550 |
| on small mammals, in West Malaysia | Diptera in, on sheep 1138 | A. poicilia, in Philippines 1312 |
| 3217 | dung in, biological control of 1169 | A. polynesiensis, transmission of 355, |
| taxonomy of, chaetotaxy 2581 | Myobiidae in | 2417, 2418, 2746 |
| walkerae, Argas | on Marsupialia 945 | A. samoanus, transmission of 2417, |
| Wallis and Futuna Islands, Aedes | on rodents 946 | 2418 |
| polynesiensis in, viruses in 124 | Phthiraptera in, on cattle 488 | Anopheles spp., in Tanzania 131 |
| Walnut orchards, Aedes sierrensis in, | Spilopsyllus cuniculi in, on rabbit 2365 | A. coustani, not developing 550 |
| dispersal of 3094 | Spinturnicidae in, on bat 947 | A. flavirostris, in Philippines 1321 |
| Washington State | veterinary entomology in 38 | A. funestus, transmission of 1264 |
| Cuterebra tenebrosa in, on Neotoma | Western equine encephalitis (see | A. gambiae, transmission of 1264 |
| 1390 | Encephalitis, western equine) | A. pharoensis, development of 550 |
| Dermacentor andersoni in, on small | | 4 7 7 1 1 1 660 |
| | Western Samoa | A. tenebrosus, not developing 550 |
| mammals 2557 | Aedes polynesiensis in 2375 | Cimex hemipterus, transmission of 474 |
| mammals 2557 D. variabilis in, on small mammals 2557 | Aedes polynesiensis in 2375 A. samoanus in 2375 | Cimex hemipterus, transmission of 474 Culex spp., in Egypt 1096 |
| mammals 2557 D. variabilis in, on small mammals 2557 Gasterophilus intestinalis in 2478 | Aedes polynesiensis in 2375 A. samoanus in 2375 Copris incertus in, introductions of 2375 | Cimex hemipterus, transmission of 474 Culex spp., in Egypt 1096 C. quinquefasciatus |
| mammals 2557 D. variabilis in, on small mammals 2557 Gasterophilus intestinalis in 2478 Sarcoptes scabiei in, on pig 2248 | Aedes polynesiensis in 2375 A. samoanus in 2375 Copris incertus in, introductions of 2375 whartoni, Neotrombicula | Cimex hemipterus, transmission of 474 Culex spp., in Egypt 1096 C. quinquefasciatus detecting of 779 |
| mammals 2557 D. variabilis in, on small mammals 2557 Gasterophilus intestinalis in 2478 Sarcoptes scabiei in, on pig 2248 washingtona, Amphipsylla sibirica | Aedes polynesiensis in 2375 A. samoanus in 2375 Copris incertus in, introductions of 2375 whartoni, Neotrombicula Wheat (Triticum spp.) | Cimex hemipterus, transmission of 474 Culex spp., in Egypt 1096 C. quinquefasciatus detecting of 779 in Philippines 1312, 1321 |
| mammals 2557 D. variabilis in, on small mammals 2557 Gasterophilus intestinalis in 2478 Sarcoptes scabiei in, on pig 2248 washingtona, Amphipsylla sibirica Wasmannia auropunctata | Aedes polynesiensis in 2375 A. samoanus in 2375 Copris incertus in, introductions of 2375 whartoni, Neotrombicula Wheat (Triticum spp.) Wheat bran | Cimex hemipterus, transmission of 474 Culex spp., in Egypt 1096 C. quinquefasciatus detecting of 779 in Philippines 1312, 1321 in Tanzania 131 |
| mammals 2557 D. variabilis in, on small mammals 2557 Gasterophilus intestinalis in 2478 Sarcoptes scabiei in, on pig 2248 washingtona, Amphipsylla sibirica Wasmannia auropunctata in Canada 2204 | Aedes polynesiensis in 2375 A. samoanus in 2375 Copris incertus in, introductions of 2375 whartoni, Neotrombicula Wheat (Triticum spp.) Wheat bran diet component for | Cimex hemipterus, transmission of 474 Culex spp., in Egypt 1096 C. quinquefasciatus detecting of 779 in Philippines 1312, 1321 in Tanzania 131 transmission of 722 |
| mammals 2557 D. variabilis in, on small mammals 2557 Gasterophilus intestinalis in 2478 Sarcoptes scabiei in, on pig 2248 washingtona, Amphipsylla sibirica Wasmannia auropunctata in Canada 2204 in hothouses, in Manitoba 2204 | Aedes polynesiensis in 2375 A. samoanus in 2375 Copris incertus in, introductions of 2375 whartoni, Neotrombicula Wheat (Triticum spp.) Wheat bran diet component for Musca domestica 3171 | Cimex hemipterus, transmission of 474 Culex spp., in Egypt 1096 C. quinquefasciatus detecting of 779 in Philippines 1312, 1321 in Tanzania 131 transmission of 722 C. sitiens, in East Africa 550 |
| mammals 2557 D. variabilis in, on small mammals 2557 Gasterophilus intestinalis in 2478 Sarcoptes scabiei in, on pig 2248 washingtona, Amphipsylla sibirica Wasmannia auropunctata in Canada 2204 in hothouses, in Manitoba 2204 Water balance | Aedes polynesiensis in 2375 A. samoanus in 2375 Copris incertus in, introductions of 2375 whartoni, Neotrombicula Wheat (Triticum spp.) Wheat bran diet component for Musca domestica 3171 Myospila meditabunda 2164 | Cimex hemipterus, transmission of 474 Culex spp., in Egypt 1096 C. quinquefasciatus detecting of 779 in Philippines 1312, 1321 in Tanzania 131 transmission of 722 C. sitiens, in East Africa 550 man |
| mammals 2557 D. variabilis in, on small mammals Gasterophilus intestinalis in 2478 Sarcoptes scabiei in, on pig 2248 washingtona, Amphipsylla sibirica Wasmannia auropunctata in Canada 2204 in hothouses, in Manitoba 2204 Water balance in insects, review 1503 | Aedes polynesiensis in 2375 A. samoanus in 2375 Copris incertus in, introductions of 2375 whartoni, Neotrombicula Wheat (Triticum spp.) Wheat bran diet component for Musca domestica 3171 Myospila meditabunda 2164 Ophyra aenescens 908 | Cimex hemipterus, transmission of Culex spp., in Egypt 1096 C. quinquefasciatus detecting of 779 in Philippines 1312, 1321 in Tanzania 131 transmission of 722 C. sitiens, in East Africa 550 man in Americas 978 |
| mammals 2557 D. variabilis in, on small mammals Gasterophilus intestinalis in 2478 Sarcoptes scabiei in, on pig 2248 washingtona, Amphipsylla sibirica Wasmannia auropunctata in Canada 2204 in hothouses, in Manitoba 2204 Water balance in insects, review 1503 in mites, review 1503 | Aedes polynesiensis in 2375 A. samoanus in 2375 Copris incertus in, introductions of 2375 whartoni, Neotrombicula Wheat (Triticum spp.) Wheat bran diet component for Musca domestica 3171 Myospila meditabunda 2164 Ophyra aenescens 908 Stomoxys nigra 580 | Cimex hemipterus, transmission of 474 Culex spp., in Egypt 1096 C. quinquefasciatus detecting of 779 in Philippines 1312, 1321 in Tanzania 131 transmission of 722 C. sitiens, in East Africa 550 man in Americas 978 in Egypt 1096 |
| mammals 2557 D. variabilis in, on small mammals Gasterophilus intestinalis in 2478 Sarcoptes scabiei in, on pig 2248 washingtona, Amphipsylla sibirica Wasmannia auropunctata in Canada 2204 in hothouses, in Manitoba 2204 Water balance in insects, review 1503 in mites, review 1503 Water buffalo (see Buffalo, Asian) | Aedes polynesiensis in 2375 A. samoanus in 2375 Copris incertus in, introductions of 2375 whartoni, Neotrombicula Wheat (Triticum spp.) Wheat bran diet component for Musca domestica 3171 Myospila meditabunda 2164 Ophyra aenescens 908 Stomoxys nigra 580 Wheat flour, bait component for, Blattella | Cimex hemipterus, transmission of Culex spp., in Egypt 1096 C. quinquefasciatus detecting of 779 in Philippines 1312, 1321 in Tanzania 131 transmission of 722 C. sitiens, in East Africa 550 man in Americas 978 in Egypt 1096 in Philippines 1312 |
| mammals 2557 D. variabilis in, on small mammals 2557 Gasterophilus intestinalis in 2478 Sarcoptes scabiei in, on pig 2248 washingtona, Amphipsylla sibirica Wasmannia auropunctata in Canada 2204 in hothouses, in Manitoba 2204 Water balance in insects, review 1503 in mites, review 1503 Water buffalo (see Buffalo, Asian) Water butts, Aedes aegypti in, in Martinique | Aedes polynesiensis in 2375 A. samoanus in 2375 Copris incertus in, introductions of 2375 whartoni, Neotrombicula Wheat (Triticum spp.) Wheat bran diet component for Musca domestica 3171 Myospila meditabunda 2164 Ophyra aenescens 908 Stomoxys nigra 580 Wheat flour, bait component for, Blattella germanica 3004 | Cimex hemipterus, transmission of Culex spp., in Egypt 1096 C. quinquefasciatus detecting of 779 in Philippines 1312, 1321 in Tanzania 131 transmission of 722 C. sitiens, in East Africa 550 man in Americas 978 in Egypt 1096 in Philippines 1312 in Ryukyu Islands 722 |
| mammals 2557 D. variabilis in, on small mammals Gasterophilus intestinalis in 2478 Sarcoptes scabici in, on pig 2248 washingtona, Amphipsylla sibirica Wasmannia auropunctata in Canada 2204 in hothouses, in Manitoba 2204 Water balance in insects, review 1503 in mites, review 1503 Water buffalo (see Buffalo, Asian) Water butts, Aedes aegypti in, in Martinique 2782 | Aedes polynesiensis in 2375 A. samoanus in 2375 Copris incertus in, introductions of 2375 whartoni, Neotrombicula Wheat (Triticum spp.) Wheat bran diet component for Musca domestica 3171 Myospila meditabunda 2164 Ophyra aenescens 908 Stomoxys nigra 580 Wheat flour, bait component for, Blattella germanica 3004 Wheat germ | Cimex hemipterus, transmission of 474 Culex spp., in Egypt 1096 C. quinquefasciatus detecting of 779 in Philippines 1312, 1321 in Tanzania 131 transmission of 722 C. sitiens, in East Africa 550 man in Americas 978 in Egypt 1096 in Philippines 1312 in Ryukyu Islands 722 in Solomon Islands 2113 |
| mammals 2557 D. variabilis in, on small mammals 2557 Gasterophilus intestinalis in 2478 Sarcoptes scabiei in, on pig 2248 washingtona, Amphipsylla sibirica Wasmannia auropunctata in Canada 2204 in hothouses, in Manitoba 2204 Water balance in insects, review 1503 in mites, review 1503 Water buffalo (see Buffalo, Asian) Water butts, Aedes aegypti in, in Martinique | Aedes polynesiensis in 2375 A. samoanus in 2375 Copris incertus in, introductions of 2375 whartoni, Neotrombicula Wheat (Triticum spp.) Wheat bran diet component for Musca domestica 3171 Myospila meditabunda 2164 Ophyra aenescens 908 Stomoxys nigra 580 Wheat flour, bait component for, Blattella germanica 3004 Wheat germ diet component for, Dermatophagoides | Cimex hemipterus, transmission of Culex spp., in Egypt 1096 C. quinquefasciatus detecting of 779 in Philippines 1312, 1321 in Tanzania 131 transmission of 722 C. sitiens, in East Africa 550 man in Americas 978 in Egypt 1096 in Philippines 1312 in Ryukyu Islands 722 in Solomon Islands 2113 in Tanzania 131 |
| mammals 2557 D. variabilis in, on small mammals Gasterophilus intestinalis in 2478 Sarcoptes scabici in, on pig 2248 washingtona, Amphipsylla sibirica Wasmannia auropunctata in Canada 2204 in hothouses, in Manitoba 2204 Water balance in insects, review 1503 in mites, review 1503 Water buffalo (see Buffalo, Asian) Water butts, Aedes aegypti in, in Martinique 2782 | Aedes polynesiensis in 2375 A. samoanus in 2375 Copris incertus in, introductions of 2375 whartoni, Neotrombicula Wheat (Triticum spp.) Wheat bran diet component for Musca domestica 3171 Myospila meditabunda 2164 Ophyra aenescens 908 Stomoxys nigra 580 Wheat flour, bait component for, Blattella germanica 3004 Wheat germ | Cimex hemipterus, transmission of Culex spp., in Egypt 1096 C. quinquefasciatus detecting of 779 in Philippines 1312, 1321 in Tanzania 131 transmission of 722 C. sitiens, in East Africa 550 man in Americas 978 in Egypt 1096 in Philippines 1312 in Ryukyu Islands 722 in Solomon Islands 2113 in Tanzania 131 in Trinidad 505 |
| mammals 2557 D. variabilis in, on small mammals Gasterophilus intestinalis in 2478 Sarcoptes scabiei in, on pig 2248 washingtona, Amphipsylla sibirica Wasmannia auropunctata in Canada 2204 in hothouses, in Manitoba 2204 Water balanc in insects, review 1503 in mites, review 1503 Water buffalo (see Buffalo, Asian) Water butts, Aedes aegypti in, in Martinique 2782 Water containers Aedes spp. in, in Sabah 3169 A. aegypti in | Aedes polynesiensis in 2375 A. samoanus in 2375 Copris incertus in, introductions of 2375 whartoni, Neotrombicula Wheat (Triticum spp.) Wheat bran diet component for Musca domestica 3171 Myospila meditabunda 2164 Ophyra aenescens 908 Stomoxys nigra 580 Wheat flour, bait component for, Blattella germanica 3004 Wheat germ diet component for, Dermatophagoides farinae 2569 Tyrophagus putrescentiae in, development | Cimex hemipterus, transmission of Culex spp., in Egypt 1096 C. quinquefasciatus detecting of 779 in Philippines 1312, 1321 in Tanzania 131 transmission of 722 C. sitiens, in East Africa 550 man in Americas 978 in Egypt 1096 in Philippines 1312 in Ryukyu Islands 722 in Solomon Islands 2113 in Tanzania 131 in Trinidad 505 Mansonia africana, not developing 550 |
| mammals 2557 D. variabilis in, on small mammals 2557 Gasterophilus intestinalis in 2478 Sarcoptes scabiei in, on pig 2248 washingtona, Amphipsylla sibirica Wasmannia auropunctata in Canada 2204 in hothouses, in Manitoba 2204 Water balance in insects, review 1503 in mites, review 1503 Water buffalo (see Buffalo, Asian) Water bufts, Aedes aegypti in, in Martinique 2782 Water containers Aedes spp. in, in Sabah 3169 A. aegypti in in Sabah 1320 | Aedes polynesiensis in 2375 A. samoanus in 2375 Copris incertus in, introductions of 2375 whartoni, Neotrombicula Wheat (Triticum spp.) Wheat bran diet component for Musca domestica 3171 Myospila meditabunda 2164 Ophyra aenescens 908 Stomoxys nigra 580 Wheat flour, bait component for, Blattella germanica 3004 Wheat germ diet component for, Dermatophagoides farinae 2569 Tyrophagus putrescentiae in, development of 2019 | Cimex hemipterus, transmission of Culex spp., in Egypt 1096 C. quinquefasciatus detecting of 779 in Philippines 1312, 1321 in Tanzania 131 transmission of 722 C. sitiens, in East Africa 550 man in Americas 978 in Egypt 1096 in Philippines 1312 in Ryukyu Islands 722 in Solomon Islands 2113 in Tanzania 131 in Trinidad 505 Mansonia africana, not developing 550 M. uniformis, not developing 550 |
| mammals 2557 D. variabilis in, on small mammals 2557 Gasterophilus intestinalis in 2478 Sarcoptes scabiei in, on pig 2248 washingtona, Amphipsylla sibirica Wasmannia auropunctata in Canada 2204 in hothouses, in Manitoba 2204 Water balance in insects, review 1503 in mites, review 1503 Water buffalo (see Buffalo, Asian) Water butts, Aedes aegypti in, in Martinique 2782 Water containers Aedes spp. in, in Sabah 3169 A. aegypti in in Sabah 1320 in Upper Volta 1079 | Aedes polynesiensis in 2375 A. samoanus in 2375 Copris incertus in, introductions of 2375 whartoni, Neotrombicula Wheat (Triticum spp.) Wheat bran diet component for Musca domestica 3171 Myospila meditabunda 2164 Ophyra aenescens 908 Stomoxys nigra 580 Wheat flour, bait component for, Blattella germanica 3004 Wheat germ diet component for, Dermatophagoides farinae 2569 Tyrophagus putrescentiae in, development of 2019 Wheat (stored grain), Pyemotes tritici in, in | Cimex hemipterus, transmission of Culex spp., in Egypt 1096 C. quinquefasciatus detecting of 779 in Philippines 1312, 1321 in Tanzania 131 transmission of 722 C. sitiens, in East Africa 550 man in Americas 978 in Egypt 1096 in Philippines 1312 in Ryukyu Islands 722 in Solomon Islands 2113 in Tanzania 131 in Trinidad 505 Mansonia africana, not developing 550 Toxorhynchites amboinensis, |
| mammals 2557 D. variabilis in, on small mammals 2557 Gasterophilus intestinalis in 2478 Sarcoptes scabiei in, on pig 2248 washingtona, Amphipsylla sibirica Wasmannia auropunctata in Canada 2204 in hothouses, in Manitoba 2204 Water balance in insects, review 1503 in mites, review 1503 Water buffalo (see Buffalo, Asian) Water butts, Aedes aegypti in, in Martinique 2782 Water containers Aedes spp. in, in Sabah 3169 A. aegypti in in Sabah 1320 in Upper Volta 1079 A. albopictus in, in Sabah 1320 | Aedes polynesiensis in 2375 A. samoanus in 2375 Copris incertus in, introductions of 2375 whartoni, Neotrombicula Wheat (Triticum spp.) Wheat bran diet component for Musca domestica 3171 Myospila meditabunda 2164 Ophyra aenescens 908 Stomoxys nigra 580 Wheat flour, bait component for, Blattella germanica 3004 Wheat germ diet component for, Dermatophagoides farinae 2569 Tyrophagus putrescentiae in, development of 2019 Wheat (stored grain), Pyemotes tritici in, in Tunisia 2635 | Cimex hemipterus, transmission of Culex spp., in Egypt 1096 C. quinquefasciatus detecting of 779 in Philippines 1312, 1321 in Tanzania 131 transmission of 722 C. sitiens, in East Africa 550 man in Americas 978 in Egypt 1096 in Philippines 1312 in Ryukyu Islands 722 in Solomon Islands 2113 in Tanzania 131 in Trinidad 505 Mansonia africana, not developing M. uniformis, not developing 550 Toxorhynchites amboinensis, development of 2735 |
| mammals 2557 D. variabilis in, on small mammals Gasterophilus intestinalis in 2478 Sarcoptes scabici in, on pig 2248 washingtona, Amphipsylla sibirica Wasmannia auropunctata in Canada 2204 in hothouses, in Manitoba 2204 Water balance in insects, review 1503 in mites, review 1503 Water buffalo (see Buffalo, Asian) Water bufts, Aedes aegypti in, in Martinique 2782 Water containers Aedes spp. in, in Sabah 3169 A. aegypti in in Sabah 1320 in Upper Volta 1079 A. albopictus in, in Sabah 1320 Culex quinquefasciatus in | Aedes polynesiensis in 2375 A. samoanus in 2375 Copris incertus in, introductions of 2375 whartoni, Neotrombicula Wheat (Triticum spp.) Wheat bran diet component for Musca domestica 3171 Myospila meditabunda 2164 Ophyra aenescens 908 Stomoxys nigra 580 Wheat flour, bait component for, Blattella germanica 3004 Wheat germ diet component for, Dermatophagoides farinae 2569 Tyrophagus putrescentiae in, development of 2019 Wheat (stored grain), Pyemotes tritici in, in Tunisia 2635 wheeleri, Paralucilia | Cimex hemipterus, transmission of Culex spp., in Egypt 1096 C. quinquefasciatus detecting of 779 in Philippines 1312, 1321 in Tanzania 131 transmission of 722 C. sitiens, in East Africa 550 man in Americas 978 in Egypt 1096 in Philippines 1312 in Ryukyu Islands 722 in Solomon Islands 2113 in Tanzania 131 in Trinidad 505 Mansonia africana, not developing 550 Toxorhynchites amboinensis, development of 2735 T. aurifluus, development of 2735 |
| mammals 2557 D. variabilis in, on small mammals Gasterophilus intestinalis in 2478 Sarcoptes scabici in, on pig 2248 washingtona, Amphipsylla sibirica Wasmannia auropunctata in Canada 2204 in hothouses, in Manitoba 2204 Water balance in insects, review 1503 in mites, review 1503 Water buffalo (see Buffalo, Asian) Water buffalo (see Buffalo, Asian) Water buffalo (see Buffalo, Asian) Water containers Aedes spp. in, in Sabah 3169 A. aegypti in in Sabah 1320 in Upper Volta 1079 A. albopictus in, in Sabah 1320 Culex quinquefasciatus in in Delhi 2695 | Aedes polynesiensis in 2375 A. samoanus in 2375 Copris incertus in, introductions of 2375 whartoni, Neotrombicula Wheat (Triticum spp.) Wheat bran diet component for Musca domestica 3171 Myospila meditabunda 2164 Ophyra aenescens 908 Stomoxys nigra 580 Wheat flour, bait component for, Blattella germanica 3004 Wheat germ diet component for, Dermatophagoides farinae 2569 Tyrophagus putrescentiae in, development of 2019 Wheat (stored grain), Pyemotes tritici in, in Tunisia 2635 wheeleri, Paralucilia Wheezing (see Respiratory sounds) | Cimex hemipterus, transmission of Culex spp., in Egypt 1096 C. quinquefasciatus detecting of 779 in Philippines 1312, 1321 in Tanzania 131 transmission of 722 C. sitiens, in East Africa 550 man in Americas 978 in Egypt 1096 in Philippines 1312 in Ryukyu Islands 722 in Ryukyu Islands 2113 in Tanzania 131 in Trinidad 505 Mansonia africana, not developing M. uniformis, not developing 550 Toxorhynchites amboinensis, development of 2735 T. aurifluus, development of 2735 periodicity in 2746 |
| mammals 2557 D. variabilis in, on small mammals Gasterophilus intestinalis in 2478 Sarcoptes scabiei in, on pig 2248 washingtona, Amphipsylla sibirica Wasmannia auropunctata in Canada 2204 in hothouses, in Manitoba 2204 Water balance in insects, review 1503 in mites, review 1503 Water buffalo (see Buffalo, Asian) Water butts, Aedes aegypti in, in Martinique 2782 Water containers Aedes spp. in, in Sabah 3169 A. aegypti in in Sabah 1320 in Upper Volta 1079 A. albopictus in, in Sabah 1320 Culex quinquefasciatus in in Delhi 2695 in Sabah 1320 | Aedes polynesiensis in 2375 A. samoanus in 2375 Copris incertus in, introductions of 2375 whartoni, Neotrombicula Wheat (Triticum spp.) Wheat bran diet component for Musca domestica 3171 Myospila meditabunda 2164 Ophyra aenescens 908 Stomoxys nigra 580 Wheat flour, bait component for, Blattella germanica 3004 Wheat germ diet component for, Dermatophagoides farinae 2569 Tyrophagus putrescentiae in, development of 2019 Wheat (stored grain), Pyemotes tritici in, in Tunisia 2635 wheeleri, Paralucilia Wheezing (see Respiratory sounds) wichmanni, Eutrombicula | Cimex hemipterus, transmission of Culex spp., in Egypt 1096 C. quinquefasciatus detecting of 779 in Philippines 1312, 1321 in Tanzania 131 transmission of 722 C. sitiens, in East Africa 550 man in Americas 978 in Egypt 1096 in Philippines 1312 in Ryukyu Islands 722 in Solomon Islands 2113 in Tanzania 131 in Trinidad 505 Mansonia africana, not developing 550 Toxorhynchites amboinensis, development of 2735 T. aurifluus, development of 2735 periodicity in 2746 research on 2265 |
| mammals 2557 D. variabilis in, on small mammals Gasterophilus intestinalis in 2478 Sarcoptes scabici in, on pig 2248 washingtona, Amphipsylla sibirica Wasmannia auropunctata in Canada 2204 in hothouses, in Manitoba 2204 Water balance in insects, review 1503 in mites, review 1503 water buffalo (see Buffalo, Asian) Water butfalo (see Buffalo, Asian) Water butts, Aedes aegypti in, in Martinique 2782 Water containers Aedes spp. in, in Sabah 3169 A. aegypti in in Sabah 1320 in Upper Volta 1079 A. albopictus in, in Sabah 1320 Culex quinquefasciatus in in Delhi 2695 in Sabah 1320 mosquito control in 1075 | Aedes polynesiensis in 2375 A. samoanus in 2375 Copris incertus in, introductions of 2375 whartoni, Neotrombicula Wheat (Triticum spp.) Wheat bran diet component for Musca domestica 3171 Myospila meditabunda 2164 Ophyra aenescens 908 Stomoxys nigra 580 Wheat flour, bait component for, Blattella germanica 3004 Wheat germ diet component for, Dermatophagoides farinae 2569 Tyrophagus putrescentiae in, development of 2019 Wheat (stored grain), Pyemotes tritici in, in Tunisia 2635 wheeleri, Paralucilia Wheezing (see Respiratory sounds) wichmanni, Eutrombicula Wildebeest, black (see Connochaetes gnou) | Cimex hemipterus, transmission of Culex spp., in Egypt 1096 C. quinquefasciatus detecting of 779 in Philippines 1312, 1321 in Tanzania 131 transmission of 722 C. sitiens, in East Africa 550 man in Americas 978 in Egypt 1096 in Philippines 1312 in Ryukyu Islands 722 in Solomon Islands 2113 in Tanzania 131 in Trinidad 505 Mansonia africana, not developing 550 Toxorhynchites amboinensis, development of 2735 T. aurifluus, development of 2735 periodicity in 2746 research on 2265 vectors as affecting 2746 |
| mammals 2557 D. variabilis in, on small mammals Gasterophilus intestinalis in 2478 Sarcoptes scabiei in, on pig 2248 washingtona, Amphipsylla sibirica Wasmannia auropunctata in Canada 2204 in hothouses, in Manitoba 2204 Water balance in insects, review 1503 in mites, review 1503 Water buffalo (see Buffalo, Asian) Water buffalo (see Buffalo, Asian) Water butts, Aedes aegypti in, in Martinique 2782 Water containers Aedes spp. in, in Sabah 3169 A. aegypti in in Sabah 1320 in Upper Volta 1079 A. albopictus in, in Sabah 1320 Culex quinquefasciatus in in Delhi 2695 in Sabah 1320 mosquito control in 1075 temephos for 1079 | Aedes polynesiensis in 2375 A. samoanus in 2375 Copris incertus in, introductions of 2375 whartoni, Neotrombicula Wheat (Triticum spp.) Wheat bran diet component for Musca domestica 3171 Myospila meditabunda 2164 Ophyra aenescens 908 Stomoxys nigra 580 Wheat flour, bait component for, Blattella germanica 3004 Wheat germ diet component for, Dermatophagoides farinae 2569 Tyrophagus putrescentiae in, development of 2019 Wheat (stored grain), Pyemotes tritici in, in Tunisia 2635 wheeleri, Paralucilia Wheezing (see Respiratory sounds) wichmanni, Eutrombicula Wildebeest, black (see Connochaetes gnou) Wildebeest, blue (see Connochaetes | Cimex hemipterus, transmission of Culex spp., in Egypt 1096 C. quinquefasciatus detecting of 779 in Philippines 1312, 1321 in Tanzania 131 transmission of 722 C. sitiens, in East Africa 550 man in Americas 978 in Egypt 1096 in Philippines 1312 in Ryukyu Islands 722 in Solomon Islands 2113 in Trinidad 505 Mansonia africana, not developing 550 Toxorhynchites amboinensis, development of 2735 T. aurifluus, development of 2735 periodicity in 2746 research on 2265 vectors as affecting 2746 vectors of 474, 978 |
| mammals 2557 D. variabilis in, on small mammals Gasterophilus intestinalis in 2478 Sarcoptes scabici in, on pig 2248 washingtona, Amphipsylla sibirica Wasmannia auropunctata in Canada 2204 in hothouses, in Manitoba 2204 Water balance in insects, review 1503 in mites, review 1503 water buffalo (see Buffalo, Asian) Water butfalo (see Buffalo, Asian) Water butts, Aedes aegypti in, in Martinique 2782 Water containers Aedes spp. in, in Sabah 3169 A. aegypti in in Sabah 1320 in Upper Volta 1079 A. albopictus in, in Sabah 1320 Culex quinquefasciatus in in Delhi 2695 in Sabah 1320 mosquito control in 1075 | Aedes polynesiensis in 2375 A. samoanus in 2375 Copris incertus in, introductions of 2375 whartoni, Neotrombicula Wheat (Triticum spp.) Wheat bran diet component for Musca domestica 3171 Myospila meditabunda 2164 Ophyra aenescens 908 Stomoxys nigra 580 Wheat flour, bait component for, Blattella germanica 3004 Wheat germ diet component for, Dermatophagoides farinae 2569 Tyrophagus putrescentiae in, development of 2019 Wheat (stored grain), Pyemotes tritici in, in Tunisia 2635 wheeleri, Paralucilia Wheezing (see Respiratory sounds) wichmanni, Eutrombicula Wildebeest, black (see Connochaetes taurinus) | Cimex hemipterus, transmission of Culex spp., in Egypt 1096 C. quinquefasciatus detecting of 779 in Philippines 1312, 1321 in Tanzania 131 transmission of 722 C. sitiens, in East Africa 550 man in Americas 978 in Egypt 1096 in Philippines 1312 in Ryukyu Islands 722 in Solomon Islands 2113 in Tanzania 131 in Trinidad 505 Mansonia africana, not developing M. uniformis, not developing 550 Toxorhynchites amboinensis, development of 2735 T. aurifluus, development of 2735 periodicity in 2746 research on 2265 vectors as affecting 2746 vectors of 474, 978 in India 2038 |
| mammals 2557 D. variabilis in, on small mammals Gasterophilus intestinalis in 2478 Sarcoptes scabiei in, on pig 2248 washingtona, Amphipsylla sibirica Wasmannia auropunctata in Canada 2204 in hothouses, in Manitoba 2204 Water balance in insects, review 1503 in mites, review 1503 water buffalo (see Buffalo, Asian) Water buffalo (see Buffalo, Asian) Water butts, Aedes aegypti in, in Martinique 2782 Water containers Aedes spp. in, in Sabah 3169 A. aegypti in in Sabah 1320 in Upper Volta 1079 A. albopictus in, in Sabah 1320 Culex quinquefasciatus in in Delhi 2695 in Sabah 1320 mosquito control in 1075 temephos for 1079 Water management, role in mosquito control of 3068 | Aedes polynesiensis in 2375 A. samoanus in 2375 Copris incertus in, introductions of 2375 whartoni, Neotrombicula Wheat (Triticum spp.) Wheat bran diet component for Musca domestica 3171 Myospila meditabunda 2164 Ophyra aenescens 908 Stomoxys nigra 580 Wheat flour, bait component for, Blattella germanica 3004 Wheat germ diet component for, Dermatophagoides farinae 2569 Tyrophagus putrescentiae in, development of 2019 Wheat (stored grain), Pyemotes tritici in, in Tunisia 2635 wheeleri, Paralucilia Wheezing (see Respiratory sounds) wichmanni, Eutrombicula Wildebeest, black (see Connochaetes gnou) Wildebeest, blue (see Connochaetes taurinus) Wilhelmia equina (see Simulium equinum) | Cimex hemipterus, transmission of Culex spp., in Egypt 1096 C. quinquefasciatus detecting of 779 in Philippines 1312, 1321 in Tanzania 131 transmission of 722 C. sitiens, in East Africa 550 man in Americas 978 in Egypt 1096 in Philippines 1312 in Ryukyu Islands 722 in Solomon Islands 2113 in Tanzania 131 in Trinidad 505 Mansonia africana, not developing M. uniformis, not developing 550 Toxorhynchites amboinensis, development of 2735 T. aurifluus, development of 2735 periodicity in 2746 research on 2265 vectors as affecting 2746 vectors of 474, 978 in India 2038 Wyeomyia, in Maritime Provinces 1617 |
| mammals 2557 D. variabilis in, on small mammals Gasterophilus intestinalis in 2478 Sarcoptes scabici in, on pig 2248 washingtona, Amphipsylla sibirica Wasmannia auropunctata in Canada 2204 in hothouses, in Manitoba 2204 Water balance in insects, review 1503 in mites, review 1503 Water buffalo (see Buffalo, Asian) Water butts, Aedes aegypti in, in Martinique 2782 Water containers Aedes spp. in, in Sabah 3169 A. aegypti in in Sabah 1320 in Upper Volta 1079 A. albopictus in, in Sabah 1320 Culex quinquefasciatus in in Delhi 2695 in Sabah 1320 mosquito control in 1075 temephos for 1079 Water management, role in mosquito control of 3068 Water-meter boxes, Blatta orientalis in, in | Aedes polynesiensis in 2375 A. samoanus in 2375 Copris incertus in, introductions of 2375 whartoni, Neotrombicula Wheat (Triticum spp.) Wheat bran diet component for Musca domestica 3171 Myospila meditabunda 2164 Ophyra aenescens 908 Stomoxys nigra 580 Wheat flour, bait component for, Blattella germanica 3004 Wheat germ diet component for, Dermatophagoides farinae 2569 Tyrophagus putrescentiae in, development of 2019 Wheat (stored grain), Pyemotes tritici in, in Tunisia 2635 wheeleri, Paralucilia Wheezing (see Respiratory sounds) wichmanni, Eutrombicula Wildebeest, black (see Connochaetes gnou) Wildebeest, blue (see Connochaetes taurinus) Wilhelmia equina (see Simulium equinum) Wilhelmia lineata (see Simulium lineatum) | Cimex hemipterus, transmission of Culex spp., in Egypt 1096 C. quinquefasciatus detecting of 779 in Philippines 1312, 1321 in Tanzania 131 transmission of 722 C. sitiens, in East Africa 550 man in Americas 978 in Egypt 1096 in Philippines 1312 in Ryukyu Islands 722 in Solomon Islands 2113 in Tanzania 131 in Trinidad 505 Mansonia africana, not developing 550 Toxorhynchites amboinensis, development of 2735 T. aurilluus, development of 2735 periodicity in 2746 research on 2265 vectors as affecting 2746 vectors of 474, 978 in India 2038 Wyeomyia, in Maritime Provinces 1617 Wyeomyia vanduzeei |
| mammals 2557 D. variabilis in, on small mammals Gasterophilus intestinalis in 2478 Sarcoptes scabici in, on pig 2248 washingtona, Amphipsylla sibirica Wasmannia auropunctata in Canada 2204 in hothouses, in Manitoba 2204 Water balance in insects, review 1503 in mites, review 1503 Water buffalo (see Buffalo, Asian) Water buffs, Aedes aegypti in, in Martinique 2782 Water containers Aedes spp. in, in Sabah 3169 A. aegypti in in Sabah 1320 in Upper Volta 1079 A. albopictus in, in Sabah 1320 Culex quinquefasciatus in in Delhi 2695 in Sabah 1320 mosquito control in 1075 temephos for 1079 Water management, role in mosquito control of 3068 Water-meter boxes, Blatta orientalis in, in California 1509 | Aedes polynesiensis in 2375 A. samoanus in 2375 Copris incertus in, introductions of 2375 whartoni, Neotrombicula Wheat (Triticum spp.) Wheat bran diet component for Musca domestica 3171 Myospila meditabunda 2164 Ophyra aenescens 908 Stomoxys nigra 580 Wheat flour, bait component for, Blattella germanica 3004 Wheat germ diet component for, Dermatophagoides farinae 2569 Tyrophagus putrescentiae in, development of 2019 Wheat (stored grain), Pyemotes tritici in, in Tunisia 2635 wheeleri, Paralucilia Wheezing (see Respiratory sounds) wichmanni, Eutrombicula Wildebeest, blue (see Connochaetes gnou) Wildelmia equina (see Simulium equinum) Wilhelmia equina (see Simulium lineatum) Willelmia lineata (see Simulium lineatum) Willow (see Salix) | Cimex hemipterus, transmission of Culex spp., in Egypt 1096 C. quinquefasciatus detecting of 779 in Philippines 1312, 1321 in Tanzania 131 transmission of 722 C. sitiens, in East Africa 550 man in Americas 978 in Egypt 1096 in Philippines 1312 in Ryukyu Islands 722 in Ryokyu Islands 722 in Ryokyu Islands 2113 in Tanzania 131 in Trinidad 505 Mansonia africana, not developing 550 Toxorhynchites amboinensis, development of 2735 T. aurifluus, development of 2735 periodicity in 2746 research on 2265 vectors as affecting 2746 vectors of 474, 978 in India 2038 Wyeomyia, in Maritime Provinces 1617 Wyeomyia vanduzeei autogeny in 337, 1095 |
| mammals 2557 D. variabilis in, on small mammals Gasterophilus intestinalis in 2478 Sarcoptes scabiei in, on pig 2248 washingtona, Amphipsylla sibirica Wasmannia auropunctata in Canada 2204 in hothouses, in Manitoba 2204 Water balance in insects, review 1503 in mites, review 1503 Water buffalo (see Buffalo, Asian) Water butts, Aedes aegypti in, in Martinique 2782 Water containers Aedes spp. in, in Sabah 3169 A. aegypti in in Sabah 1320 in Upper Volta 1079 A. albopictus in, in Sabah 1320 Culex quinquefasciatus in in Delhi 2695 in Sabah 1320 mosquito control in 1075 temephos for 1079 Water management, role in mosquito control of 3068 Water-meter boxes, Blatta orientalis in, in California 1509 Water pollution, Ephemeroptera as | Aedes polynesiensis in 2375 A. samoanus in 2375 Copris incertus in, introductions of 2375 whartoni, Neotrombicula Wheat (Triticum spp.) Wheat bran diet component for Musca domestica 3171 Myospila meditabunda 2164 Ophyra aenescens 908 Stomoxys nigra 580 Wheat flour, bait component for, Blattella germanica 3004 Wheat germ diet component for, Dermatophagoides farinae 2569 Tyrophagus putrescentiae in, development of 2019 Wheat (stored grain), Pyemotes tritici in, in Tunisia 2635 wheeleri, Paralucilia Wheezing (see Respiratory sounds) wichmanni, Eutrombicula Wildebeest, black (see Connochaetes gnou) Wildebeest, blue (see Connochaetes taurinus) Wilhelmia equina (see Simulium equinum) Wilhelmia lineata (see Simulium lineatum) Wilsomsin | Cimex hemipterus, transmission of Culex spp., in Egypt 1096 C. quinquefasciatus detecting of 779 in Philippines 1312, 1321 in Tanzania 131 transmission of 722 C. sitiens, in East Africa 550 man in Americas 978 in Egypt 1096 in Philippines 1312 in Ryukyu Islands 722 in Solomon Islands 2113 in Tanzania 131 in Trinidad 505 Mansonia africana, not developing M. uniformis, not developing 550 Toxorhynchites amboinensis, development of 2735 T. aurifluus, development of 2735 periodicity in 2746 research on 2265 vectors as affecting 2746 vectors of 474, 978 in India 2038 Wyeomyia, in Maritime Provinces 1617 Wyeomyia vanduzeei autogeny in 337, 1095 Coelomomyces spp. in, in Florida 1055 |
| mammals 2557 D. variabilis in, on small mammals Gasterophilus intestinalis in 2478 Sarcoptes scabici in, on pig 2248 washingtona, Amphipsylla sibirica Wasmannia auropunctata in Canada 2204 in hothouses, in Manitoba 2204 Water balance in insects, review 1503 in mites, review 1503 Water buffalo (see Buffalo, Asian) Water buffs, Aedes aegypti in, in Martinique 2782 Water containers Aedes spp. in, in Sabah 3169 A. aegypti in in Sabah 1320 in Upper Volta 1079 A. albopictus in, in Sabah 1320 Culex quinquefasciatus in in Delhi 2695 in Sabah 1320 mosquito control in 1075 temephos for 1079 Water management, role in mosquito control of 3068 Water-meter boxes, Blatta orientalis in, in California 1509 | Aedes polynesiensis in 2375 A. samoanus in 2375 Copris incertus in, introductions of 2375 whartoni, Neotrombicula Wheat (Triticum spp.) Wheat bran diet component for Musca domestica 3171 Myospila meditabunda 2164 Ophyra aenescens 908 Stomoxys nigra 580 Wheat flour, bait component for, Blattella germanica 3004 Wheat germ diet component for, Dermatophagoides farinae 2569 Tyrophagus putrescentiae in, development of 2019 Wheat (stored grain), Pyemotes tritici in, in Tunisia 2635 wheeleri, Paralucilia Wheezing (see Respiratory sounds) wichmanni, Eutrombicula Wildebeest, blue (see Connochaetes gnou) Wildelmia equina (see Simulium equinum) Wilhelmia equina (see Simulium lineatum) Willelmia lineata (see Simulium lineatum) Willow (see Salix) | Cimex hemipterus, transmission of Culex spp., in Egypt 1096 C. quinquefasciatus detecting of 779 in Philippines 1312, 1321 in Tanzania 131 transmission of 722 C. sitiens, in East Africa 550 man in Americas 978 in Egypt 1096 in Philippines 1312 in Ryukyu Islands 722 in Ryokyu Islands 722 in Ryokyu Islands 2113 in Tanzania 131 in Trinidad 505 Mansonia africana, not developing 550 Toxorhynchites amboinensis, development of 2735 T. aurifluus, development of 2735 periodicity in 2746 research on 2265 vectors as affecting 2746 vectors of 474, 978 in India 2038 Wyeomyia, in Maritime Provinces 1617 Wyeomyia vanduzeei autogeny in 337, 1095 |
| mammals 2557 D. variabilis in, on small mammals Gasterophilus intestinalis in 2478 Sarcoptes scabiei in, on pig 2248 washingtona, Amphipsylla sibirica Wasmannia auropunctata in Canada 2204 in hothouses, in Manitoba 2204 Water balance in insects, review 1503 in mites, review 1503 Water buffalo (see Buffalo, Asian) Water butts, Aedes aegypti in, in Martinique 2782 Water containers Aedes spp. in, in Sabah 3169 A. aegypti in in Sabah 1320 in Upper Volta 1079 A. albopictus in, in Sabah 1320 Culex quinquefasciatus in in Delhi 2695 in Sabah 1320 mosquito control in 1075 temephos for 1079 Water management, role in mosquito control of 3068 Water-meter boxes, Blatta orientalis in, in California 1509 Water pollution, Ephemeroptera as | Aedes polynesiensis in 2375 A. samoanus in 2375 Copris incertus in, introductions of 2375 whartoni, Neotrombicula Wheat (Triticum spp.) Wheat bran diet component for Musca domestica 3171 Myospila meditabunda 2164 Ophyra aenescens 908 Stomoxys nigra 580 Wheat flour, bait component for, Blattella germanica 3004 Wheat germ diet component for, Dermatophagoides farinae 2569 Tyrophagus putrescentiae in, development of 2019 Wheat (stored grain), Pyemotes tritici in, in Tunisia 2635 wheeleri, Paralucilia Wheezing (see Respiratory sounds) wichmanni, Eutrombicula Wildebeest, black (see Connochaetes gnou) Wildebeest, blue (see Connochaetes taurinus) Wilhelmia equina (see Simulium equinum) Wilhelmia lineata (see Simulium lineatum) Wilsomsin | Cimex hemipterus, transmission of Culex spp., in Egypt 1096 C. quinquefasciatus detecting of 779 in Philippines 1312, 1321 in Tanzania 131 transmission of 722 C. sitiens, in East Africa 550 man in Americas 978 in Egypt 1096 in Philippines 1312 in Ryukyu Islands 722 in Solomon Islands 2113 in Tanzania 131 in Trinidad 505 Mansonia africana, not developing M. uniformis, not developing 550 Toxorhynchites amboinensis, development of 2735 T. aurifluus, development of 2735 periodicity in 2746 research on 2265 vectors as affecting 2746 vectors of 474, 978 in India 2038 Wyeomyia, in Maritime Provinces 1617 Wyeomyia vanduzeei autogeny in 337, 1095 Coelomomyces spp. in, in Florida 1055 |

| Wyoming | Xenopsylla skrjabini contd. | youngi, Raphignathus (see Stigmaeus |
|---|--|--|
| mosquito control in 163 | on Rhombomys opimus | youngi) |
| Phthiraptera in, on Cynomys 501 | in Kazakhstan 1846 | youngi, Stigmaeus (Raphignathus) |
| Siphonaptera in, on Cynomys 501 | in USSR 1023, 1024 population dynamics of 1023 | Yugoslavia Anopheles spp. in 3042 |
| X-rays effects of, on | Xenopsylla tarimensis | A. claviger in 445 |
| Aedes aegypti, infected with iridescent | sp. nov., description of 2344 | A. maculipennis in 445 |
| virus 2112 | in China 2344 | Araneae in, on man 1221 |
| Anopheles albimanus 1317 | on Dipus sagitta, in China 2344 | Cataglyphis bicolor in, trematodes in 442 |
| Boettcherisca peregrina 2178 | xera, Sergentomyia | Culicidae in 446 |
| Periplaneta americana 477, 744 | Xerus inauris, Sergentomyia spp. on, in | Formica spp. in, trematodes in 442 |
| for evaluating salt concentrations in insect | southern Africa 3113 | Ixodidae in |
| glands 1785 | Xerus princeps, Sergentomyia namibensis on, | on cattle 2217 on sheep 2217 |
| Xanthine dehydrogenase (see | in southern Africa 3113 Xyalophora quinquelineata | leishmaniasis in 444 |
| Dehydrogenase, xanthine) xanthomelas, Musca | in USA 1724 | Phlebotominae in 444 |
| Xanthommatin, in Lucilia cuprina, relation | parasitising, dung-breeding flies, in | Pteracarus miniopteri in, on Miniopterus |
| of eye colour mutants and 2493 | California 1724 | 663 |
| xenia, Actias artemis | Xylocoris galactinus | yui, Leptotrombidium (Trombicula) |
| Xenopsylla | in Hungary 1543 | yui, Trombicula (see Leptotrombidium yui) |
| on gerbil 1021 | in birds' nests, in Hungary 1543 | Zacco platypus, preying on, Culex pipiens 339 |
| Yersinia pestis in, antibodies to, detecting of 1027 | xyloni, Solenopsis Yarrow (see Achillea millefolium) | zachvatkini, Hirsutiella (see Neotrombicula |
| Xenopsylla astia | yasguri, Cheyletiella | zachvatkini) |
| digestive enzymes in 1285, 3027 | Yeast | zachvatkini, Neotrombicula (Hirsutiella) |
| in Burma 2714 | diet component for | Zaïre |
| male maturation in 1548 | Anopheles sinensis 82 | Aedes aegypti in 989 |
| on Bandicota bengalensis, in Burma | Dermatophagoides pteronyssinus 271 | Cimex hemipterus in 989 |
| 2714 | Musca domestica 3171 | Culicoides spp. in, on man 989 |
| vitellogenesis in, dietary requirements for | Ophyra aenescens 908 | onchocerciasis in 2452 |
| 1281 Veneralla hyasiliansis control of | Spilopsyllus cuniculi 2349 Yellow fever | Zaliv Terpeniya virus, in, Ixodidae, in USSR 2963 |
| Xenopsylla brasiliensis, control of, insecticides for 980 | in Africa 347 | Zambia |
| Xenopsylla cheopis | in Colombia 1344, 3077 | Anopheles arabiensis in, sporozoites in |
| control of | in Malagasy Republic 2408 | 1656 |
| biological 2216 | in South America 347 | Culicidae in 791 |
| insecticide-pathogen mixtures for 2216 | in 1978 3080 | Glossina morsitans in 372, 1374 |
| digestive enzymes in 498, 1285, 3027 | virus | onchocerciasis in 2452 |
| in Burma 2714 | control of, vector control for 1060, | veterinary entomology in 2461, 2462 |
| in Italy 969 | 1344 in | zapus, Gliricoptes Zapus hudsonius |
| in Japan 718 male maturation in 1548 | Aedes spp. | ectoparasites of, in North America 1447 |
| marking of, radioiron for 2341 | in Central African Republic 347 | habitats of 928 |
| on Bandicota bengalensis, in Burma | in Senegal 166, 347, 2780 | Zapus princeps, ectoparasites of, in North |
| 2714 | transmission of 1053 | America 1447 |
| on dog, in Ryukyu Islands 718 | transovarial transmission of 347 | Zapus trinotatus, ectoparasites of, in North |
| on man, in Italy 969 | A. aegypti | America 1447 |
| on Rattus norvegicus, in Ryukyu Islands | in Gambia 3080 | zaraptor, Muscidifurax |
| 718 on <i>Rattus rattus</i> , in Ryukyu Islands 718 | transmission of 2734 detecting of 794 | Zea mays (see Maize) zealandicus, Tachinaephagus |
| sex ratio in 502 | transovarial transmission of 2128 | Zebu (Bos indicus) |
| vitellogenesis in, dietary requirements for | A. africanus | Amblyomma americanum on |
| 1281 | in Central African Republic 2733 | in Oklahoma 2907 |
| Yersinia enterocolitica in, population | in Ivory Coast 3080 | resistance to 1193 |
| dynamics of 766 | A. albopictus, replication of 2760 | Boophilus microplus on, density- |
| Y. pestis in, blockage formation by, | A. luteocephalus, in Upper Volta | dependent mortality of 1201 |
| inhibitors of 1030 Xenopsylla conformis | 3080 A. mascarensis, transovarial | Dermatobia hominis on, effects of hide colour on 2154 |
| in USSR 1031 | transmission of 2128 | Ixodoidea on, effects on plasma |
| on jerboa, in USSR 1031 | Amblyomma variegatum | phospholipids of 1425 |
| sex ratio in 502 | in Central African Republic 2603, | zeylanica, Sergentomyia |
| Xenopsylla cunicularis | 3080 | zhongdianensis, Amphipsylla quadratoides |
| in Spain 1494 | transmission of 2603 | Zibethacarus ondatrae |
| seasonal abundance of 1494 | Haemagogus spp., in Trinidad 2131 | in USA 1256 |
| Xenopsylla gerbilli | man in Gombio 125 | on mink, in Indiana 1256 |
| in USSR 1026, 2348 on Meriones, in USSR 2348 | in Gambia 135 in Nigeria 334 | ziemanni, Anopheles Zika virus |
| on Rhombomys opimus | in Trinidad 2131 | in |
| effects of physiography on 1026 | vectors of 135 | Aedes spp., in Senegal 2780 |
| in USSR 2348 | traps for 1052 | A. aegypti, transmission of 2734 |
| Xenopsylla gerbilli caspica | Yemen | Zimbabwe (formerly Rhodesia) |
| in USSR 1846 | Anopheles spp. in 332 | Amblyomma hebraeum in 2004 |
| on Rhombomys opimus, in Kazakhstan | malaria in 332 | A. variegatum in 2004 |
| 1846 Xenopsylla gerbilli minax | onchocerciasis in 2452 Phlebotominae in 1238 | Anopheles spp. in 1901 cattle in, tick control on 1994 |
| fecundity in 765 | Simuliidae in 1362 | Glossina spp. in 2150 |
| in USSR 1031, 1846 | Yersinia enterocolitica, in, Xenopsylla | G. morsitans in 368, 573, 1384, 1385, |
| on jerboa, in USSR 1031 | cheopis, population dynamics of 766 | 3136 |
| on Rhombomys opimus, in Kazakhstan | Yersinia pestis (see also Plague) | G. pallidipes in 368, 573, 1385, 3136 |
| 1846 | epidemiology of, review 2353 | heartwater in 2004 |
| Xenopsylla hirtipes | in Commission in Nove Marriage 221 | Ixodidae in, on cattle 654, 1182 |
| in USSR 1031, 1846 on jerboa, in USSR 1031 | Citellophilus tesquorum, blockage | Ixodoidea in, on cattle 2015 |
| on Rhombomys opimus, in Kazakhstan | Citellophilus tesquorum, blockage formation by 498 | medical entomology in 980 Musca domestica in 225 |
| 1846 | Xenopsylla spp. | Rhinoestrus hippopotami in, on |
| Xenopsylla nuttalli | antibodies to, detecting of 1027 | Hippopotamus 1122 |
| in USSR 1023 | transmission of, effects of vector | Sarcoptes scabiei in, on man 1457 |
| on Rhombomys opimus, in USSR 1023 | digestion on 3027 | trypanosomiasis in 2150 |
| population dynamics of 1023 | X. cheopis, blockage formation by, | Zirga virus, in, Ornithodoros muesebecki, in |
| Xenopsylla skrjabini biology of 767 | inhibitors of 1030 vectors of 474 | Asia 2974 Zoo animals |
| feeding behaviour in 1024 | ylephiletrix, Lutzomyia | Canis lupus, Rhipicephalus sanguineus on, |
| in USSR 767, 1023, 1024, 1846 | voshimatsui. Chironomus | in Florida 2591 |

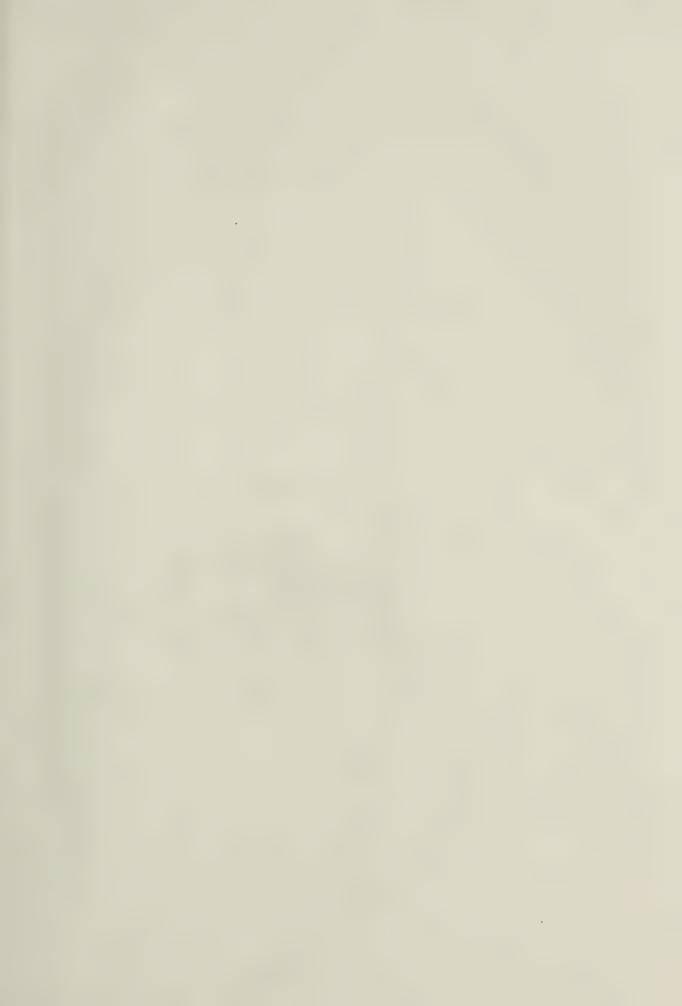
Zoo animals contd.

Canis lupus × C. familiaris,
Rhipicephalus sanguineus on, in
Florida 2591
dog, Rhipicephalus sanguineus on, in
Florida 2591
Uncia uncia
Notoedres cati on
effects of 1446
in San Antonio Zoo 1446
Zoonoses, classification of 979
Zoos, Blattella germanica in, in East
Germany 2060
Zosima orientalis, repellent activity of
extracts of 246
ZR-0515 (see Methoprene)
ZR-0619 (see Triprene)
zwoelferi, Pyemotes
Zygodontomys lasiurus, Polygenis bohlsi on,
in Brazil 2085
SUBJECT INDEX PREPARED BY A M WOOD

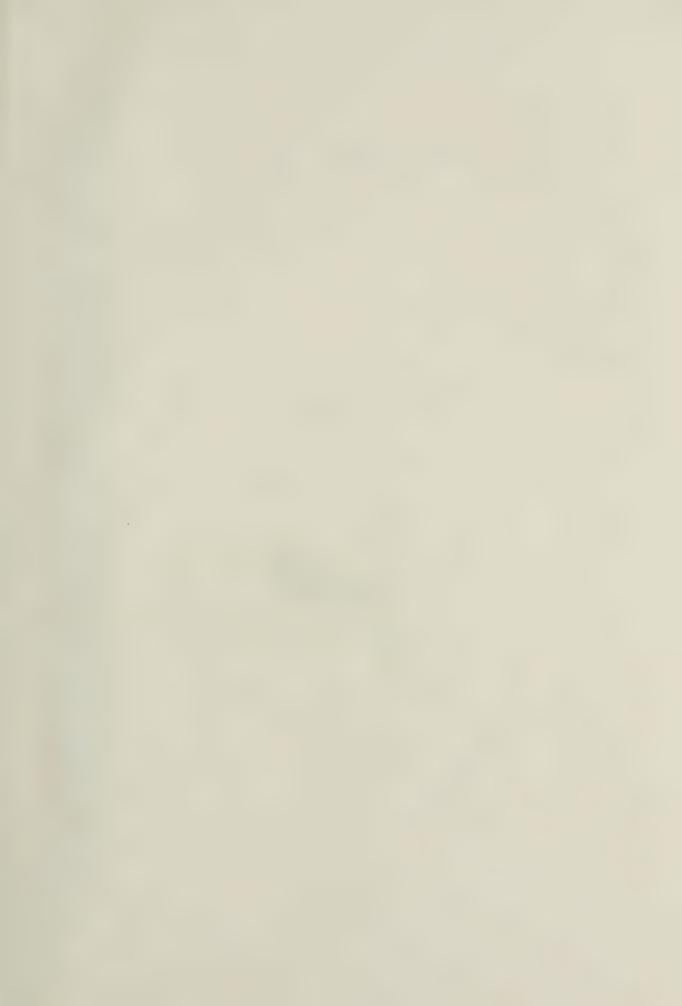


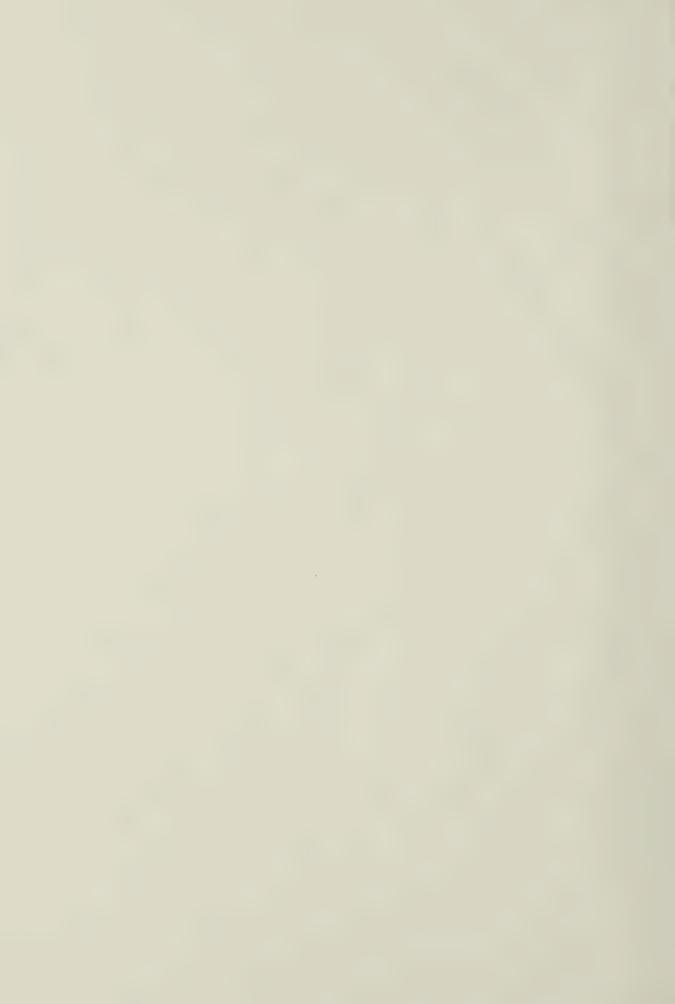


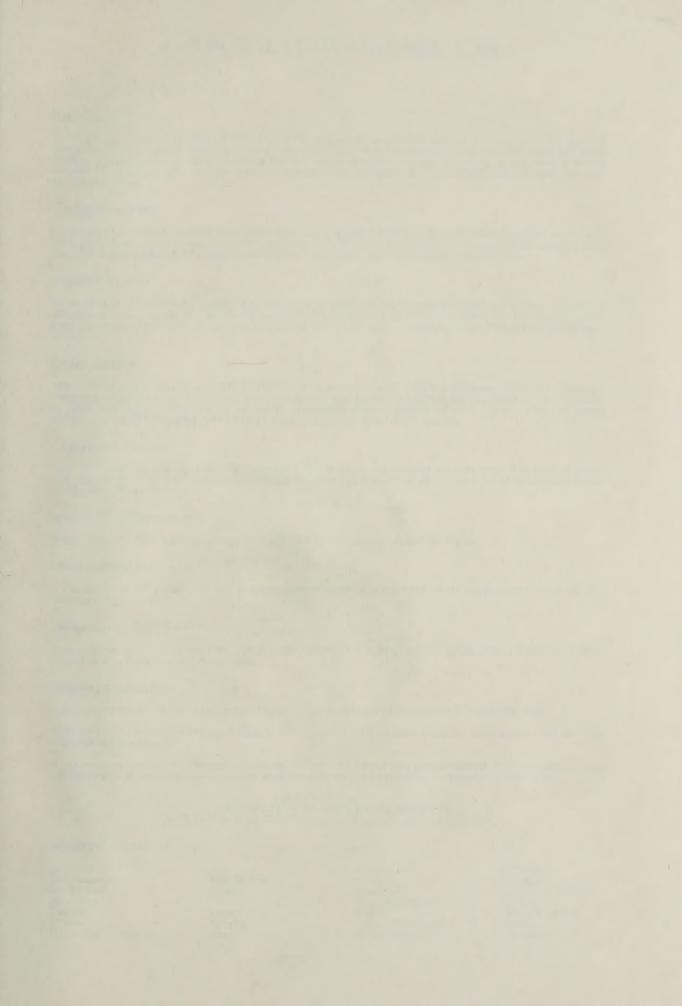














CAB PUBLICATIONS AND SERVICES

Main Journals

The abstract journals form one part of a range of services in agricultural science provided by CAB, and will contain in 1981 a total of 180,000 abstracts and titles. With records derived from over 8,500 serials and many other publications, the journals constitute the only comprehensive coverage in English of the world literature on agriculture and related sciences. Readers' comments on the journals, their subject and literature coverage, are welcomed.

Specialist Journals

In response to demand, CAB has launched a new series of journals for the specialist research worker; some cover multidisciplinary topics, others deal with a single crop or product. Records for these journals are selected from the CAB database, and may be supplemented by relevant items from collaborating organizations.

Magnetic Tapes

Since 1973 (1972 in Animal Health) the journals have been produced by computer techniques. The consolidated database, now containing over 1,100,000 records and increasing by 12,000 each month, is available on magnetic tape. Complete sets of tapes or parts corresponding to selected subjects may be leased. Prices and sample tapes on request.

Online Services

The CAB database, known as CAB ABSTRACTS, is accessible over ordinary telephone lines via Lockheed's computer based DIALOG Information Retrieval Service and the ESA/RECON system and DIMDI. On-line access to CAB ABSTRACTS provides an immediate and highly efficient method of obtaining references to papers published since 1972-73. CAB ABSTRACTS is available on the SDC ORBIT system.

CAB Search Services

CAB scientists who compile the CAB database will also carry out searches for customers. The basic charge is £25 plus £0.10 per abstract retrieved. A regular monthly SDI service can be supplied for £100 per year for up to 50 references per month.

Annotated Bibliographies

3000 Annotated Bibliographies already available provide information on specific topics.

Other Publications

A wide range of review articles, technical communications, reports and books are published. Write for our catalogue.

Document Delivery Service

Most original articles abstracted in CAB journals are available as photocopies. Order forms are printed in each journal or are available in bulk from CAB.

Ordering Information

Subscriptions should be fully paid by 1st December for the volumes to be issued in the following year.

Many journals are available at special rates to subscribers in CAB member countries; details from CAB. Member countries are listed below.

A subscription provides entitlement to monthly (or quarterly) parts plus annual indexes. Rates include packing and mailing by air post to distant countries wherever the cost can be absorbed. Orders should be sent to:

CENTRAL SALES
COMMONWEALTH AGRICULTURAL BUREAUX
FARNHAM HOUSE, FARNHAM ROYAL, SLOUGH SL2 3BN, UK.

Member Countries of CAB

Australia
The Bahamas
Bangladesh
Botswana
Canada
Cyprus
Dependent Territories

Fiji The Gambia Ghana Guyana India Jamaica Kenya

Malawi Malaysia Mauritius New Zealand Nigeria Papua New Guinea Sierra Leone Sri Lanka Tanzania Trinidad & Tobago Uganda United Kingdom Zambia Zimbabwe

CAB ABSTRACT JOURNALS AND SERIAL PUBLICATIONS 1981

| | | Annual | | |
|---|--|----------------|------------------|--|
| | | No. of | rates (paper or | New subscriber |
| | | records | microform) | rates |
| | Frequency | per year | £ | £ |
| Main abstract journals | | 5000 | | 7-12-19-19-19-19-19-19-19-19-19-19-19-19-19- |
| Agricultural Engineering Abstracts * Animal Breeding Abstracts | M M | 5000 7500 | 75 135 | 45 80 |
| Arid Lands Abstracts | M | 5000 | 135 | - |
| * Dairy Science Abstracts | M | 9250 | 140 | 85 |
| * Field Crop Abstracts | M | 11000 | 175 | 105 |
| * Forestry Abstracts * Forest Products Abstracts | M M | 9000 3500 | 135 65 | 80 40 |
| * Helminthological Abstracts. A – Animal Helminthology | M | 6000 | 115 | 70 |
| B - Plant Nematology | Q | 2000 | 40 | 25 |
| * Herbage Abstracts * Herbage Abstracts | M | 5500 | 100 | 60 |
| * Horticultural Abstracts * Index Veterinarius | M M | 12000 23000 | 190 | 115 120 |
| † Leisure Recreation & Tourism Abstracts | Q | 2500 | 40 | 24 |
| * Nutrition Abstracts & Reviews. A – Human & Experimental | M | 10000 | 170 | 100 |
| B - Livestock Feeds & Feeding * Plant Breeding Abstracts | M M | 6000 12500 | 115 210 | 70 125 |
| Protozoological Abstracts | M | 5250 | 80 | 48 |
| * Review of Applied Entomology. A – Agricultural | M | 7000 | 120 | 75 |
| B – Medical & Veterinary | M | 3500 | 60 | 35 |
| * Review of Medical & Veterinary Mycology * Review of Plant Pathology | Q M | 3000 6300 | 50 120 | 35 75 |
| Rural Development Abstracts | 0 | 2500 | 40 | 24 |
| Rural Extension, Education and Training Abstracts | Q | 1500 | 37 | 22 |
| * Soils & Fertilizers | M M | 11000 8000 | 170 155 | 100 |
| * Veterinary Bulletin * Weed Abstracts | M | 4500 | 85 | 50 |
| * World Agricultural Economics and Rural Sociology Abstracts | | 8750 | 135 | 80 |
| Primary journal | | | | |
| * Bulletin of Entomological Research | Q | 1000 | 60 | 35 |
| Specialist abstract journals | | | | |
| | 1 | 1600 | 20 | 17.50 |
| Cotton & Tropical Fibres Abstracts Crop Physiology Abstracts | M M | 1600 8000 | 29 85 | 17.50 |
| Faba Bean Abstracts (New in 19 | | 400 | 23 | 15 |
| Irrigation & Drainage Abstracts | Q | 1900 | 35 | 21 |
| Maize Quality Protein Abstracts | Q M | 120 1850 | 10 35 | 6 21 |
| Ornamental Horticulture Plant Growth Regulator Abstracts | M M | 3000 | 45 | 27 |
| Potato Abstracts | M | 2000 | 36 | 21.50 |
| Poultry Abstracts | M | 3200 | 60 | 36 |
| Rice Abstracts | M | 2500 | 45 | 27 |
| Seed Abstracts Small Animal Abstracts | M Q | 3700 1300 | 50 25 | 30 15 |
| Sorghum and Millets Abstracts | M | 1100 | 20 | 14 |
| Soyabean Abstracts | M | 1900 | 35 | 21 |
| Triticale Abstracts | Q | 250 | 15 | 15 |
| Tropical Oil Seeds Abstracts | M | 1600 | 25 | 15 |
| Serial publications | | | | |
| Animal Disease Occurrence (Data tables) | В | | 40 | - |
| Bibliography of Systematic Mycology Biocontrol News & Information | В | 2000 | 7.50 | 20 |
| Descriptions of Pathogenic Fungi and Bacteria | Q Q A | 2000 | 10 | _ |
| Descriptions of Plant Viruses | À | | 5 | - |
| Distribution Maps of Pests | В | | 17.50 | 7 |
| Distribution Maps of Plant Diseases Index of Fungi | B | | 10 12 | |
| Forestry Card Title Service: | | | • | |
| Full Service (FA & FPA) | M | | 95 | - |
| Forestry Abstracts only (FA) | M | | 72 | THE PARTY OF THE P |
| Forest Product Abstracts only (FPA) Comprehensive Pig Information Service (write for details) | <u>M</u> | | 40 100 | THE PERSON |
| Index of Current Research on Pigs only | Ā | | 10 | 12 P |
| Pig News and Information only | Q M | 3000 | 25 | 15 |
| Food Science and Technology Abstracts Complete | | | 310 | - |
| Single parts Annual Cumulated Index | Ā | | 30.50 | Marie Town |
| | the state of the s | th les | | Ousetask |
| A – Annual B – Biannual | M – Mon | thly | The Man State of | Q - Quarterly |

^{*} Available at special rates to subscribers in CAB member countries. † Formerly Rural Recreation & Tourism Abstracts.

CENTRAL SALES
COMMONWEALTH AGRICULTURAL BUREAUX
FARNHAM HOUSE, FARNHAM ROYAL, SLOUGH SL2 3BN, UK.